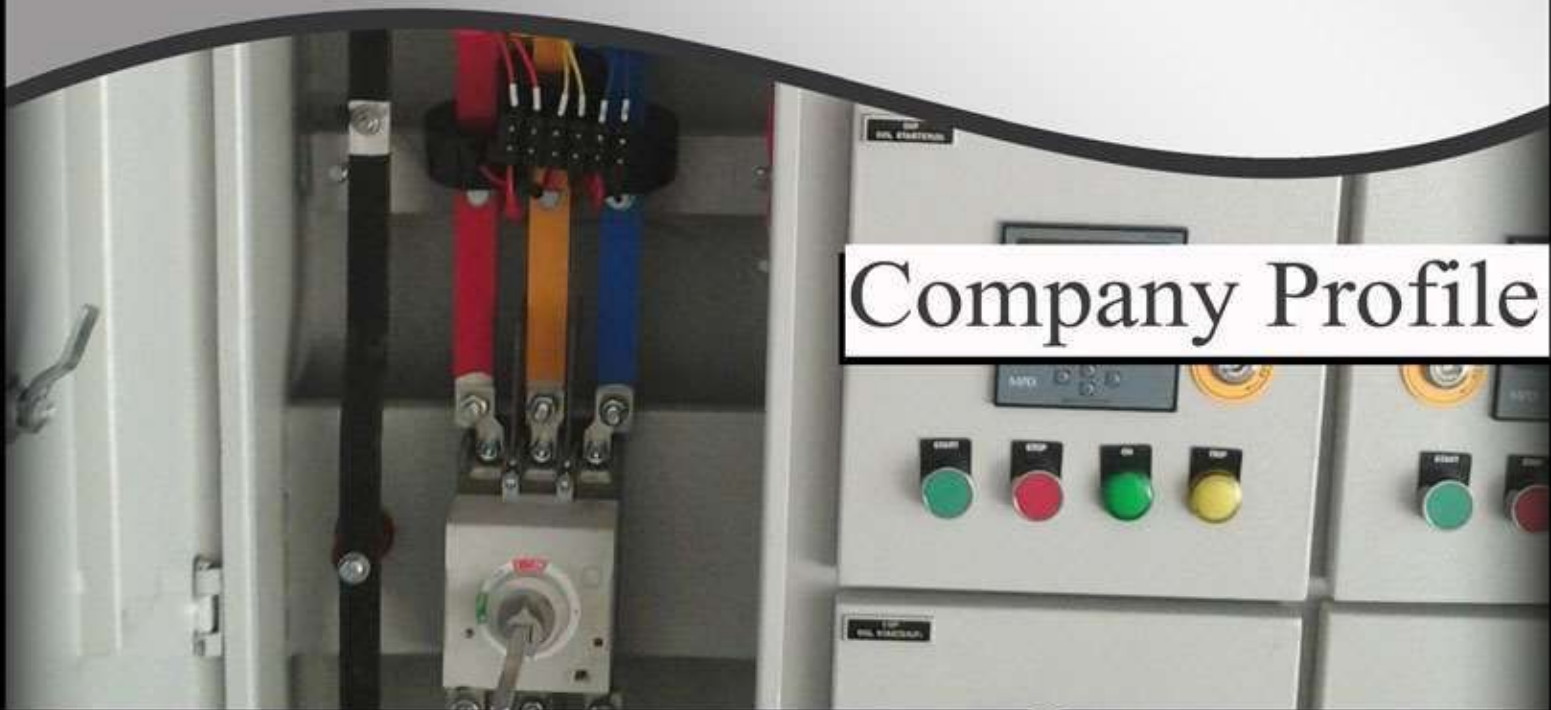


# ALNICO CONTROL PANEL



Company Profile



Power



Control



Utilization

A close-up photograph of two people in business attire shaking hands. The person on the left is wearing a dark suit jacket over a light blue shirt. The person on the right is wearing a grey suit jacket over a white shirt. The background is a textured, brownish-grey surface.

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Maximum Retail Price w.e.f. 1<sup>st</sup> October, 2014

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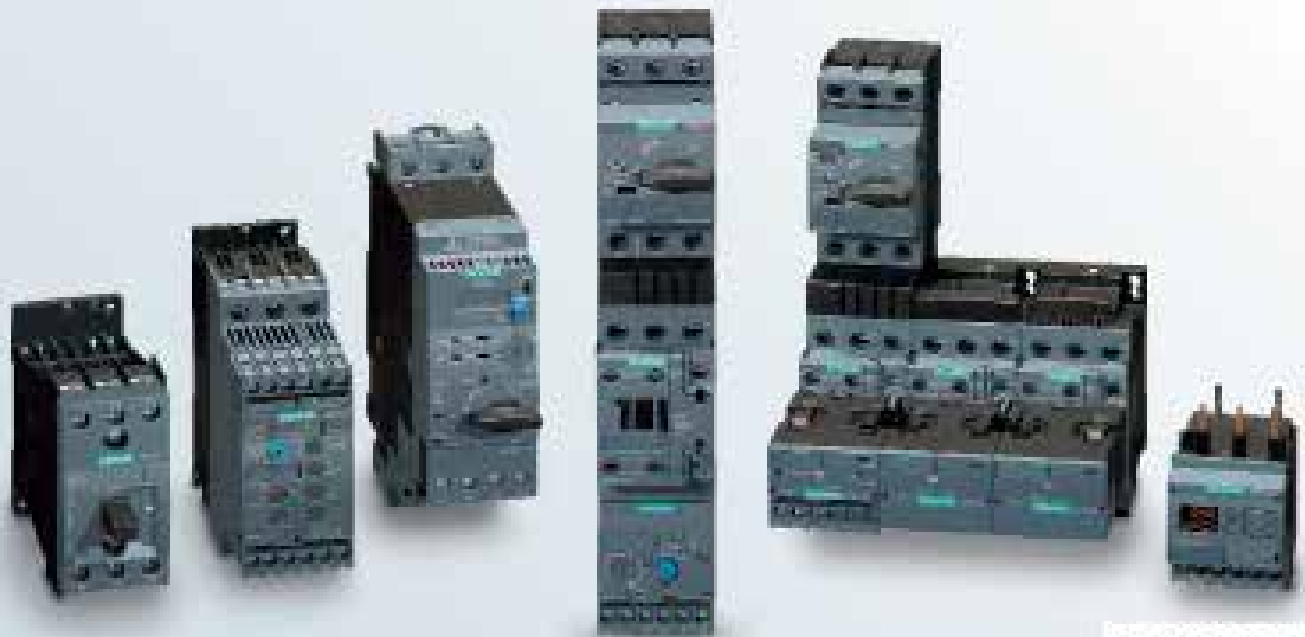
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## Contactor Relays - 3RH (S00) (Auxiliary contactors)



### Screw terminals

Size	Operational Current Ie AC-15 at 230V A	Contacts NO	Contacts NC	AC Coil <sup>5</sup>			DC Coil <sup>6</sup>		
				Type*	Unit MRP ₹	Std. pkg. (nos.)	Type*	Unit MRP ₹	Std. pkg. (nos.)
S00	10	4	–	■ 3RH21 40-1A..0	1125.-	1	■ 3RH21 40-1B..0	1525.-	1
		3	1	■ 3RH21 31-1A..0	1125.-	1	■ 3RH21 31-1B..0	1525.-	1
		2	2	■ 3RH21 22-1A..0	1125.-	1	■ 3RH21 22-1B..0	1525.-	1

\$@ Please enter coil codes from table below

### \$ AC coil voltage

Code	B0	■ F0	■ P0	■ V0
Coil voltage 50/60 Hz	24	110	230	400V

### @ DC Coil Voltage

Code	■ B4	F4	M4
Coil voltage	24	110	220

\* For ordering contactors with spring type terminals, please replace 8th digit from '1' to '2'

## Latched Contactor Relays



### Screw terminals

Rated operational current Ie AC-15 at 230V A	Contacts NO	Contacts NC	AC Coil <sup>5</sup>			DC Coil <sup>6</sup>		
			Type	Unit MRP ₹	Std. pkg. (nos.)	Type	Unit MRP ₹	Std. pkg. (nos.)
10	4	–	■ 3RH24 40-1A..0	3865.-	1	■ 3RH24 40-1B..0	5045.-	1
	3	1	■ 3RH24 31-1A..0	3865.-	1	■ 3RH24 31-1B..0	5045.-	1
	2	2	■ 3RH24 22-1A..0	3865.-	1	■ 3RH24 22-1B..0	5045.-	1

\$@ Please enter coil codes from table below

### \$ AC coil voltage

Code	B0	■ F0	■ P0
Coil voltage 50/60 Hz	24	110	230

### @ DC Coil Voltage

Code	■ B4	F4	M4
Coil voltage	24	110	220

For Latched Power Contactors refer 3RT accessory "Mechanical Latching Blocks" on page no. 18

Spring type terminals are not available for latched contactor relays.

## Contactor Relays (with Low power consumption coil)

### Auxiliary Contactor - 3RH21 Coupling Relays

Rated control supply voltage  $U_s = 24\text{ V DC}$ , Coil operating range **0.7 to 1.25xUs**

Power Consumption of the coils **2.8W at 24V DC** (No auxiliary contacts can be mounted)

### Screw terminals



Size	Surge Suppressors	Rated operational current Ie AC-15 at 230 V A	Auxiliary contacts		Type*	Unit MRP ₹	Std. pkg. (nos.)
			NO	NC			
S00	Built in suppressor Diode	10	4	–	■ 3RH21 40-1KB40	1890.-	1
			3	1	3RH21 31-1KB40		1
			2	2	■ 3RH21 22-1KB40		1
	Built in Diode		4	–	3RH21 40-1JB40		1
			3	1	3RH21 31-1JB40		1
			2	2	■ 3RH21 22-1JB40		1

\* For ordering contactors with spring type terminals, please replace 8th digit from '1' to '2'

### ■ Stock items



# Power Contactors



## 3RT (S00)

### Screw terminals

Size	AC-3 operational current Ie upto 415V A	Motor rating at 415V, 50Hz kW	Auxillary contacts	AC Coil <sup>§</sup>			DC Coil <sup>@</sup>		
				Type*	Unit MRP ₹	Std. pkg. (nos.)	Type*	Unit MRP ₹	Std. pkg. (nos.)
S00	7	3	1NO	■ 3RT20 15-1A..1	935.-	1	■ 3RT20 15-1B..1	1375.-	1
			1NC	■ 3RT20 15-1A..2	935.-	1	■ 3RT20 15-1B..2	1375.-	1
	9	4	1NO	■ 3RT20 16-1A..1	990.-	1	■ 3RT20 16-1B..1	1465.-	1
			1NC	■ 3RT20 16-1A..2	990.-	1	■ 3RT20 16-1B..2	1465.-	1
	12	5.5	1NO	■ 3RT20 17-1A..1	1095.-	1	■ 3RT20 17-1B..1	1705.-	1
			1NC	■ 3RT20 17-1A..2	1095.-	1	■ 3RT20 17-1B..2	1705.-	1
	16	7.5	1NO	■ 3RT20 18-1A..1	1280.-	1	■ 3RT20 18-1B..1	2005.-	1
			1NC	■ 3RT20 18-1A..2	1280.-	1	■ 3RT20 18-1B..2	2005.-	1

§@ Please enter coil codes from table below

#### § AC coil voltage for size S00

Code	B0	■ F0	■ P0	■ V0
Coil voltage 50/60 Hz	24	110	230	400

#### @ DC coil voltage for size S00

Code	■ B4	F4	M4
Coil voltage	24	110	220

\*For ordering contactors with spring type terminals, please replace 8th digit from '1' to '2'

## 3RT (S0, S2, S3)

### Screw terminals

Size	AC-3 operational current Ie upto 415V A	Motor rating at 415V, 50Hz kW	Auxillary contacts	AC Coil <sup>§</sup>			DC Coil <sup>@</sup>		
				Type*	Unit MRP ₹	Std. pkg. (nos.)	Type*	Unit MRP ₹	Std. pkg. (nos.)
S0	9	4	1NO + 1NC	■ 3RT20 23-1A..0	1170.-	1	■ 3RT20 23-1B..0	1915.-	1
	12	5.5	1NO + 1NC	■ 3RT20 24-1A..0	1295.-	1	■ 3RT20 24-1B..0	2075.-	1
	17	7.5	1NO + 1NC	■ 3RT20 25-1A..0	1450.-	1	■ 3RT20 25-1B..0	2695.-	1
	25	11	1NO + 1NC	■ 3RT20 26-1A..0	1855.-	1	■ 3RT20 26-1B..0	3375.-	1
	32	15	1NO + 1NC	■ 3RT20 27-1A..0	3805.-	1	■ 3RT20 27-1B..0	7190.-	1
	38	18.5	1NO + 1NC	■ 3RT20 28-1A..0	5565.-	1	■ 3RT20 28-1B..0	8345.-	1
	40	18.5	1NO + 1NC	■ 3RT20 28-1A..0-OJA0 #	5860.-	1	■ 3RT20 28-1B..0-OJA0 #	8745.-	1
S2	50	22	-	■ 3RT10 36-1A..0	6570.-	1	■ 3RT10 36-1B..0	10635.-	1
S3	65	30	-	■ 3RT10 44-1A..0 8K	9340.-	1	■ 3RT10 44-1B..0	12330.-	1
	80	37	-	■ 3RT10 45-1A..0 8K	11935.-	1	■ 3RT10 45-1B..0	15065.-	1
	95	45	-	■ 3RT10 46-1A..0 8K	14495.-	1	■ 3RT10 46-1B..0	18640.-	1

§@ Please enter coil codes from table below

#### § AC coil voltage for size S0, S2, S3

Code	C2	■ G2	■ L2	■ V0 <sup>1)</sup>
Coil voltage 50/60 Hz	24	110	230	400

#### @ DC coil voltage for size S0, S2, S3

Code	■ B4	F4	M4
Coil voltage	24	110	220

<sup>1)</sup> Supply voltage for 400V coil is 50 Hz only

\* For ordering contactors with spring type terminals, please replace 8th digit from '1' to '2' only for size S0

# 40A Size S0 3RT2028 contactor is available with screw type terminals only.

Please contact nearest sales office for wide band coil voltage options for sizes S0 to S3

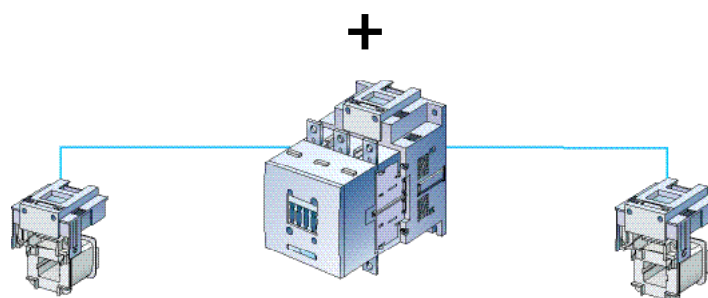
## Power Contactors

### 3RT (Size S6, S10, S12)

Withdrawable coils and integrated varistor in coil circuit

Contactor without operating coil (Please order coil separately)

Size	AC-3 operational current I <sub>e</sub> upto 415V A	Motor rating at 415V, 50Hz kW	Auxiliary contacts	Type	Unit MRP ₹	Std. pkg. (nos.)
S6	115	55	2NO+2NC	■ 3RT10 54-6LA06 8K	14610.-	1
	150	75	2NO+2NC	■ 3RT10 55-6LA06 8K	20285.-	1
	185	90	2NO+2NC	■ 3RT10 56-6LA06 8K	28015.-	1
S10	225	110	2NO+2NC	■ 3RT10 64-6LA06 8K	29585.-	1
	265	132	2NO+2NC	■ 3RT10 65-6LA06 8K	35620.-	1
	300	160	2NO+2NC	■ 3RT10 66-6LA06 8K	43290.-	1
S12	400	200	2NO+2NC	■ 3RT10 75-6LA06 8K	51450.-	1
	500	250	2NO+2NC	■ 3RT10 76-6LA06 8K	74230.-	1



#### Coil - Conventional operating mechanism

Size	Rated control supply voltage U <sub>s</sub> 40 to 60 Hz AC, DC V AC/DC	Type	MRP ₹	Std. pkg. (nos.)
S6	23...26	■ 3RT19 55-5AB31 8K	3275.-	1
	110...127	■ 3RT19 55-5AF31 8K		1
	220...240	■ 3RT19 55-5AP31 8K		1
	380...420	■ 3RT19 55-5AV31 8K		1
S10	23...26	■ 3RT19 65-5AB31	4850.-	1
	110...127	■ 3RT19 65-5AF31 8K		1
	220...240	■ 3RT19 65-5AP31 8K		1
	380...420	■ 3RT19 65-5AV31 8K		1
S12	23...26	■ 3RT19 75-5AB31	8900.-	1
	110...127	■ 3RT19 75-5AF31 8K		1
	220...240	■ 3RT19 75-5AP31 8K		1
	380...420	■ 3RT19 75-5AV31		1

#### Coil - Solid state op. mech. (24 V DC PLC o/p)

Size	Rated control supply voltage U <sub>s</sub> 40 to 60 Hz AC, DC V AC/DC	Type	MRP ₹	Std. pkg. (nos.)
S6	21...27.3	3RT19 55-5NB31	6295.-	1
	96...127	3RT19 55-5NF31		1
	200...277	■ 3RT19 55-5NP31		1
S10	21...27.3	3RT19 65-5NB31	9445.-	1
	96...127	3RT19 65-5NF31		1
	200...277	■ 3RT19 65-5NP31		1
S12	21...27.3	3RT19 75-5NB31	12595.-	1
	96...127	3RT19 75-5NF31		1
	200...277	■ 3RT19 75-5NP31		1

## 3RT power contactor with in-built coil

#### Contactors with conventional coil

Size	AC-3 operational current I <sub>e</sub> upto 415V A	Type	Unit MRP ₹	Std. pkg. (nos.)
S6	115	3RT10 54-6A\$36 8K	18705.-	1
	150	3RT10 55-6A\$36 8K	24485.-	1
	185	3RT10 56-6A\$36 8K	32360.-	1
S10	225	3RT10 64-6A\$36 8K	35445.-	1
	265	3RT10 65-6A\$36 8K	41480.-	1
	300	3RT10 66-6A\$36 8K	49145.-	1
S12	400	3RT10 75-6A\$36 8K	61890.-	1
	500	3RT10 76-6A\$36 8K	84865.-	1

\$ Insert AC 50/60 Hz, DC coil voltage codes F: 110 ... 127V, P: 220 ... 240V

#### Solid-state operating mechanisms for 24 V DC PLC output

Size	AC-3 operational current I <sub>e</sub> upto 415V A	Type	Unit MRP ₹	Std. pkg. (nos.)
S6	115	3RT10 54-6N#36	23065.-	1
	150	3RT10 55-6N#36	29220.-	1
	185	3RT10 56-6N#36	37610.-	1
S10	225	3RT10 64-6N#36	42440.-	1
	265	3RT10 65-6N#36	48870.-	1
	300	3RT10 66-6N#36	57040.-	1
S12	400	3RT10 75-6N#36	68875.-	1
	500	3RT10 76-6N#36	97450.-	1

# Insert AC 50/60 Hz, DC coil voltage codes F: 96 ... 127V, P: 200 ... 277V

■ Stock items

MRP - Maximum Retail Price



## Power Contactors - 3RT20 coupling relays (PLC interface relay)

(For switching motors, 3Pole 3 ... 5.5kW)

Rated control supply voltage  $U_s = 24 \text{ V DC}$ , Coil operating range **0.7 to 1.25xUs**

Power Consumption of the coils **2.8W at 24V DC** (No auxiliary contacts can be mounted)



Screw terminals

Size	Surge Suppressors	AC-3 Operational Current le upto 415V A	Rating of induction motor at 50 Hz and 415V	Auxillary contacts		Type*	Unit MRP ₹	Std. pkg. (nos.)
				NO	NC			
S00	Built in supressor Diode	7	3	1	–	3RT20 15-1KB41	1555.-	1
				–	1	3RT20 15-1KB42	1555.-	1
		9	4	1	–	3RT20 16-1KB41	1730.-	1
				–	1	3RT20 16-1KB42	1730.-	1
		12	5.5	1	–	3RT20 17-1KB41	1800.-	1
				–	1	3RT20 17-1KB42	1800.-	1
	Built in Diode	7	3	1	–	3RT20 15-1JB41	1555.-	1
				–	1	3RT20 15-1JB42	1555.-	1
		9	4	1	–	3RT20 16-1JB41	1730.-	1
				–	1	3RT20 16-1JB42	1730.-	1
		12	5.5	1	–	3RT20 17-1JB41	1800.-	1
				–	1	3RT20 17-1JB42	1800.-	1

\*For ordering contactors with spring type terminals, please replace 8th digit from '1' to '2'

## Power Contactors - 3RT20 coupling relays (PLC interface relay)

(For switching motors, 3Pole 3 ... 15kW)

Rated control supply voltage  $U_s = 24 \text{ V DC}$ , Coil operating range **0.7 to 1.25xUs**

Power Consumption of the coils **4.5W at 24V DC** (no auxiliary contacts can be mounted)



Screw terminals

Size	Surge Suppressors	AC-3 Operational Current le upto 415V A	Rating of induction motor at 50 Hz and 415V	Auxillary contacts		Type*	Unit MRP ₹	Std. pkg. (nos.)
				NO	NC			
S0	Varistor integrated	12	5.5	1	1	■ 3RT20 24-1KB40	2175.-	1
		17	7.5	1	1	■ 3RT20 25-1KB40	2535.-	1
		25	11	1	1	■ 3RT20 26-1KB40	4225.-	1
		32	15	1	1	■ 3RT20 27-1KB40	7465.-	1

\*For ordering contactors with spring type terminals, please replace 8th digit from '1' to '2'

## Power contactor - 3RT (S0) - Universal coil



Screw terminals

Size	AC-3 op. current le upto 415V A	Motor rating at 415V, 50Hz kW	Auxillary contacts	Universal coil#		
				Type*	Unit MRP ₹	Std. pkg. (nos.)
S0	12	5.5	1NO + 1NC	3RT20 24-1N..0	2615.-	1
	17	7.5	1NO + 1NC	3RT20 25-1N..0	3095.-	1
	25	11	1NO + 1NC	3RT20 26-1N..0	4270.-	1
	32	15	1NO + 1NC	3RT20 27-1N..0	9020.-	1
	38	18.5	1NO + 1NC	3RT20 28-1N..0	10350.-	1

# Please enter coil codes from table below

# Universal coil voltage

Coil Code	B3	F3	P3
Coil Voltage AC (40...60Hz) and DC	21...28	95...130	200...280

\*For ordering contactors with spring type terminals, please replace 8th digit from '1' to '2'

■ Stock items



# Communication capable power contactors



Rated control supply voltage  $U_s = 24\text{ V DC}$   
Screw terminals

Size	AC-3 Operational Current $I_e$ upto 415V A	Motor rating at 415V, 50 Hz kW	Auxillary contacts	Type*	Unit MRP ₹	Std. pkg. (nos.)
S00	7	3	1NO	3RT20 15-1BB41-0CC0	1645.-	1
			1NC	3RT20 15-1BB42-0CC0		
	9	4	1NO	3RT20 16-1BB41-0CC0	1755.-	1
			1NC	3RT20 16-1BB42-0CC0		
	12	5.5	1NO	3RT20 17-1BB41-0CC0	2030.-	1
			1NC	3RT20 17-1BB42-0CC0		
16	7.5	1NO	3RT20 18-1BB41-0CC0	2305.-	1	
		1NC	3RT20 18-1BB42-0CC0			

Rated control supply voltage  $U_s = 24\text{ V DC}$   
Screw terminals

Size	AC-3 Operational Current $I_e$ upto 415V A	Motor rating at 415V, 50 Hz kW	Auxillary contacts	Type*	Unit MRP ₹	Std. pkg. (nos.)
S0	9	4	1NO + 1NC	3RT20 23-1BB40-0CC0	2245.-	1
	12	5.5	1NO + 1NC	3RT20 24-1BB40-0CC0	2405.-	1
	17	7.5	1NO + 1NC	3RT20 25-1BB40-0CC0	2840.-	1
	25	11	1NO + 1NC	3RT20 26-1BB40-0CC0	3910.-	1
	32	15	1NO + 1NC	3RT20 27-1BB40-0CC0	8270.-	1
	38	18.5	1NO + 1NC	3RT20 28-1BB40-0CC0	9480.-	1

\*For ordering contactors with spring type terminals, please replace 8th digit from '1' to '2'

## Power Contactors - 3RT with indication of Remaining LifeTime (RLT)

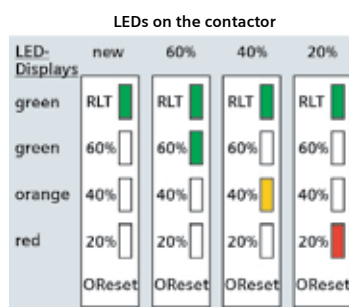
### Withdrawable coils and integrated surge suppressor

#### Benefits

- Early warning to replace contacts
- Optimum utilization of contact material
- Visual inspection of condition of contacts no longer necessary
- Reduction of operating costs
- Optimum planning of maintenance schedules
- Avoidance of unforeseen plant downtimes

Size	AC-3 Operational Current $I_e$ upto 415 V <sup>1)</sup> A	Motor rating at 415V, 50Hz kW	Auxillary contacts	Rated control supply voltage $U_s$ 40 to 60 Hz AC, DC V AC/DC	Type	Unit MRP ₹	Std. pkg. (nos.)
S6	115	55	1NO+1NC	96...127	3RT10 54-1PF35	28005.-	1
			1NO+1NC	220...277	3RT10 54-1PP35		
	150	75	1NO+1NC	96...127	3RT10 55-6PF35	33910.-	1
			1NO+1NC	220...277	3RT10 55-6PP35		
S10	185	90	1NO+1NC	96...127	3RT10 56-6PF35	42325.-	1
			1NO+1NC	220...277	3RT10 56-6PP35		
	225	110	1NO+1NC	96...127	3RT10 64-6PF35	46035.-	1
			1NO+1NC	220...277	3RT10 64-6PP35		
S12	265	132	1NO+1NC	96...127	3RT10 65-6PF35	52435.-	1
			1NO+1NC	220...277	3RT10 65-6PP35		
	300	160	1NO+1NC	96...127	3RT10 66-6PF35	60600.-	1
			1NO+1NC	220...277	3RT10 66-6PP35		
S12	400	200	1NO+1NC	96...127	3RT10 75-6PF35	71925.-	1
			1NO+1NC	220...277	3RT10 75-6PP35		
	500	250	1NO+1NC	96...127	3RT10 76-6PF35	105550.-	1
			1NO+1NC	220...277	3RT10 76-6PP35		

1) For size S6 to S12 size contactors, operating current  $I_e$  is valid up to 500V



RLT contactor





## 3 Pole AC1 Duty Contactors



Size	AC-1 operational current Ie upto 690V A	AC Coil <sup>5</sup>			DC Coil <sup>@</sup>		
		Type	Unit MRP ₹	Std. pkg. (nos.)	Type	Unit MRP ₹	Std. pkg. (nos.)
S3	140	3RT14 46-1A..0 8K	13060.-	1	3RT14 46-1B..0	16250.-	1

\$@ Please enter coil codes from table below

### \$ AC coil voltage

Code	C2	G2	L2	V0 <sup>1)</sup>
Coil voltage (50/60Hz)	24	110	230	400

1) Supply frequency for 400V coil voltage is 50Hz only.

Size	AC-1 operational current Ie upto 690V A	Auxiliary Contacts	Type <sup>#</sup>	Unit MRP ₹	Std. pkg. (nos.)
S6	275	2NO+2NC	3RT14 56-6A..6 8K	29170.-	1
S10	400	2NO+2NC	3RT14 66-6A..6 8K	39800.-	1
S12	690	2NO+2NC	3RT14 76-6A..6 8K	82560.-	1

# Please enter coil codes from the table

### @ DC coil voltage

Code	B4	F4	M4
Coil voltage	24	110	220

### # Coil voltage (AC/DC)

Code	B3	F3	P3
Coil voltage AC (40..60Hz) and DC	23...26	110...127	220...240

## 4 pole contactors - (with 4NO main contacts)



with AC coils

Contactor size	Rated current Ie (A) AC1, 415V	Auxiliary Contacts		Type <sup>2)</sup> *	Unit MRP ₹	Std. pkg. (nos.)
		NO	NC			
00	18	-	-	3RT23 16-1A..0	1410.-	1
	22	-	-	3RT23 17-1A..0	1535.-	1
0	30	1	1	3RT23 24-1A..0	1605.-	1
	35	1	1	3RT23 25-1A..0	1710.-	1
	40	1	1	3RT23 26-1A..0	2655.-	1
	50	1	1	3RT23 27-1A..0	3215.-	1
2	60	-	-	3RT13 36-1A..0	6140.-	1
3	90	-	-	3RT13 43-1A..0	10180.-	1
	110	-	-	3RT13 44-1A..0	11640.-	1
	140	-	-	3RT13 46-1A..0	15160.-	1

Higher ratings upto 1000A and corresponding AC3 ratings available Upon enquiry  
Please contact nearest sales office for wide band coil voltage options for sizes S00 to S3

For accessories, please refer pg. 35

## Vacuum contactors



with universal coil (AC/DC) Coils, 2NO+2NC aux. contacts

Contactor size	Rated current Ie (A) AC3 upto 415V	Type <sup>4)</sup>	Unit MRP ₹	Std. pkg. (nos.)
10	225	3RT12 64-6A..6	89265.-	1
10	265	3RT12 65-6A..6	105445.-	1
10	300	3RT12 66-6A..6	115500.-	1
12	400	3RT12 75-6A..6	146025.-	1
12	500	3RT12 76-6A..6	189755.-	1

### <sup>4)</sup> Coil voltage (AC/DC) - Please enter coil codes from table below

Code	B3	F3	P3	V3
Coil voltage (V)	23-26	110-127	220-240	380-420

## 4 Pole Power Contactors (with 2NO+2NC power contacts)

Size	AC-1 rating operational current Ie upto 415V A	AC Coil <sup>2)</sup>			DC Coil <sup>5)</sup>		
		Type*	Unit MRP ₹	Std. pkg. (nos.)	Type	Unit MRP ₹	Std. pkg. (nos.)
S00	18	3RT25 16-1A..0	1665.-	1	3RT25 16-1B..0	2170.-	1
	22	3RT25 17-1A..0	1955.-	1	3RT25 17-1B..0	3205.-	1
S0	40	3RT25 26-1A..0	3295.-	1	3RT25 26-1B..0	5965.-	1
S2	55	3RT15 35-1A..0	8735.-	1	3RT15 35-1B..0	11185.-	1



### <sup>2)</sup> AC coil voltage - Please enter coil codes from table below

Code	B0	F0	P0	V0
Coil voltage (V) (50Hz)	24	110	230	400 <sup>3)</sup>

<sup>3)</sup> Supply frequency for 400V coil 50Hz only.

\* Wideband coil voltages available on enquiry.

### <sup>5)</sup> DC coil voltage

Code	B4	F4	M4
Coil voltage (V)	24	110	220

## Accessories for 3RH2 & 3RT2 contactors (Size S00, S0)

### Auxiliary Contact Blocks (S00 / S0)

for snapping onto the front

For			Type*	Unit MRP ₹	Std. pkg. (nos.)
	NO	NC			
S00 / S0	1	–	3RH29 11-1HA10	235.-	1
	–	1	3RH29 11-1HA01		1
	2	–	3RH29 11-1HA20	315.-	1
	1	1	3RH29 11-1HA11		1
	–	2	3RH29 11-1HA02		1
	2	2	3RH29 11-1HA22		1
	3	1	3RH29 11-1HA31	565.-	1
	4	–	3RH29 11-1FA40		1



\* For ordering auxiliary contact blocks with Spring type terminals, please replace 8th digit from '1' to '2'

Laterally mountable auxiliary switch blocks on left and / or right

For			Type* <sup>1)</sup>	Unit MRP ₹	Std. pkg. (nos.)
	NO	NC			
S00 / S0	–	2	3RH29 21-1DA02	670.-	1
	1	1	3RH29 21-1DA11		1
	2	–	3RH29 21-1DA20		1



\* For ordering auxiliary contact blocks with Spring type terminals, please replace 8th digit from '1' to '2'

1) Only left side mounting possible for 3RH2 contactor relays

## Accessories for 3RT1 contactors (Size S2-S12)

### Auxiliary Contact Blocks (S2 - S12)

Size				#NC symbol"/>	Type	Unit MRP ₹	Std. pkg. (nos.)
	NO	NC	#NO	#NC			

#### 1 Pole Front mounted Auxiliary Contact blocks

S2.... S12 (3RT1.3 - 3RT1.7)

S2-S12	1	–	–	–	■ 3RH19 21-1CA10	155.-	10
	–	1	–	–	■ 3RH19 21-1CA01		10
	–	–	1	–	3RH19 21-1CD10	320.-	10
	–	–	–	1	3RH19 21-1CD01		10



#### 2 Pole First Laterally mountable Auxiliary Contact blocks

S2.... S12 (3RT1.3 - 3RT1.7)

S2-S12	2	–	–	–	3RH19 21-1EA20	685.-	1
	1	1	–	–	3RH19 21-1EA11		1
	–	2	–	–	3RH19 21-1EA02		1



#### 2 Pole Second Laterally mountable Auxiliary Contact blocks

3RT1.4 - 3RT1.7

S3.... S12	2	–	–	–	3RH19 21-1KA20	685.-	1
	1	1	–	–	3RH19 21-1KA11		1
	–	2	–	–	3RH19 21-1KA02		1

# Delayed actuation

#### ■ Stock items

## Reversing contactor Assemblies - 3RA.3



### Screw terminals

Size	AC-3 operational current I <sub>e</sub> upto 415V A	Motor rating at 415V, 50Hz kW	AC Coil			DC Coil				
			Rated control supply voltage U <sub>s</sub> at 50/60Hz V AC	Type*	Unit MRP ₹	Std. pkg. (nos.)	Rated control supply voltage U <sub>s</sub> V DC	Type*	Unit MRP ₹	Std. pkg. (nos.)
S00	7	3	110	3RA23 15-8XB30-1AF0	3265.-	1	24	3RA23 15-8XB30-1BB4	4330.-	1
			230	3RA23 15-8XB30-1AP0						
	9	4	110	3RA23 16-8XB30-1AF0	3445.-	1	24	3RA23 16-8XB30-1BB4	4680.-	1
			230	3RA23 16-8XB30-1AP0						
	12	5.5	110	3RA23 17-8XB30-1AF0	3605.-	1	24	3RA23 17-8XB30-1BB4	5230.-	1
			230	3RA23 17-8XB30-1AP0						
16	7.5	110	3RA23 18-8XB30-1AF0	4260.-	1	24	3RA23 18-8XB30-1BB4	6140.-	1	
		230	3RA23 18-8XB30-1AP0							
S0	12	5.5	110	3RA23 24-8XB30-1AG2	4255.-	1	24	3RA23 24-8XB30-1BB4	5720.-	1
			230	3RA23 24-8XB30-1AL2						
	17	7.5	110	3RA23 25-8XB30-1AG2	4750.-	1	24	3RA23 25-8XB30-1BB4	6560.-	1
			230	3RA23 25-8XB30-1AL2						
	25	11	110	3RA23 26-8XB30-1AG2	5730.-	1	24	3RA23 26-8XB30-1BB4	8695.-	1
			230	3RA23 26-8XB30-1AL2						
	32	15	110	3RA23 27-8XB30-1AG2	10515.-	1	24	3RA23 27-8XB30-1BB4	17030.-	1
			230	3RA23 27-8XB30-1AL2						
	38	18.5	110	3RA23 28-8XB30-1AG2	14755.-	1	24	3RA23 28-8XB30-1BB4	19260.-	1
			230	3RA23 28-8XB30-1AL2						

3RA23, Reversing assemblies, with communication interface: Price on request

\*For ordering reversing assembly with Spring type terminals, please replace 13th digit from "1 to 2"

Reversing contactor assembly are also available as "ready to assemble kit" please refer page no. 23-24



Size	AC-3 operational current I <sub>e</sub> upto 415V A	Motor rating at 415V, 50Hz kW	AC Coil			DC Coil				
			Rated control supply voltage U <sub>s</sub> at 50/60Hz V AC	Type	Unit MRP ₹	Std. pkg. (nos.)	Rated control supply voltage U <sub>s</sub> V DC	Type	Unit MRP ₹	Std. pkg. (nos.)
S2	50	22	110	3RA13 36-8XB30-1AG2	19965.-	1	24	3RA13 36-8XB30-1BB4	28135.-	1
			2300	3RA13 36-8XB30-1AL2						
S3	65	30	110	3RA13 44-8XB30-1AG2	27215.-	1	24	3RA13 44-8XB30-1BB4	32315.-	1
			230	3RA13 44-8XB30-1AL2						
	80	37	110	3RA13 45-8XB30-1AG2	32685.-	1	24	3RA13 45-8XB30-1BB4	40665.-	1
			230	3RA13 45-8XB30-1AL2						
95	45	110	3RA13 46-8XB30-1AG2	37980.-	1	24	3RA13 46-8XB30-1BB4	46655.-	1	
		230	3RA13 46-8XB30-1AL2							

Reversing contactor assembly are also available as "ready to assemble kit" please refer page no. 25-26

### ■ Stock items

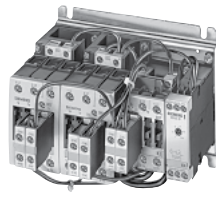
## Star Delta Contactor Assemblies - 3RA.4



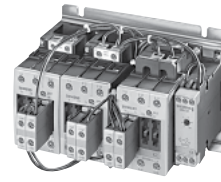
S00-S00-S00



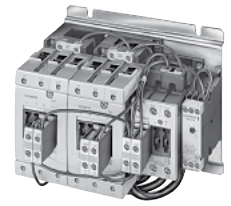
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S2-S2-S0



S2-S2-S2



S3-S3-S2

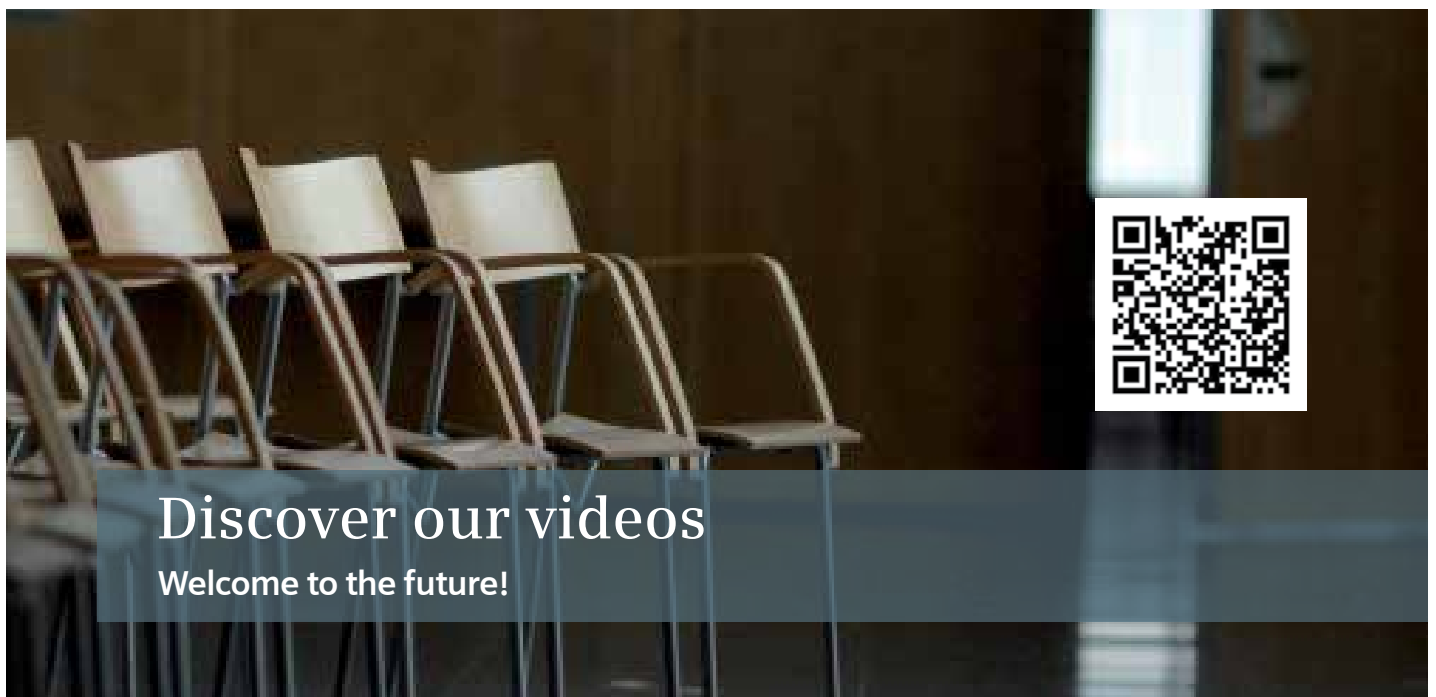
### Screw terminals

Size	AC-3 operational current I <sub>e</sub> upto 415V	Motor rating at 415V, 50Hz kW	AC Coil				DC Coil			
			Rated control supply voltage U <sub>s</sub> at 50/60Hz <sup>1)</sup> V AC	Type	Unit MRP ₹	Std. pkg. (nos.)	Rated control supply voltage U <sub>s</sub> V DC	Type	Unit MRP ₹	Std. pkg. (nos.)
S00-S00-S00	12	5.5	230	3RA24 15-8XF31-1AP0*	8525.-	1	24	3RA24 15-8XF31-1BB4*	10000.-	1
	17	7.5	230	3RA24 16-8XF31-1AP0*	8975.-	1	24	3RA24 16-8XF31-1BB4*	10885.-	1
	25	11	230	3RA24 17-8XF31-1AP0*	9410.-	1	24	3RA24 17-8XF31-1BB4*	11635.-	1
S0-S0-S0	25	11	230	3RA24 23-8XF32-1AL2*	10530.-	1	24	3RA24 23-8XF32-1BB4*	12975.-	1
	32/40	15/18.5	230	3RA24 25-8XF32-1AL2*	12110.-	1	24	3RA24 25-8XF32-1BB4*	15975.-	1
	50	22	230	3RA24 26-8XF32-1AL2*	17550.-	1	24	3RA24 26-8XF32-1BB4*	26000.-	1
S2-S2-S0	50/65	22/30	230	3RA14 34-8XC21-1AL2	18910.-	1	24	3RA14 34-8XC21-1BB4	29775.-	1
S2-S2-S2	80	37	230	3RA14 35-8XC21-1AL2	26500.-	1	24	3RA14 35-8XC21-1BB4	35410.-	1
	86	45	230	3RA14 36-8XC21-1AL2	33400.-	1	24	3RA14 36-8XC21-1BB4	46725.-	1
S3-S3-S2	115	55	230	3RA14 44-8XC21-1AL2	43990.-	1	24	3RA14 44-8XC21-1BB4	52390.-	1
	150	75	230	3RA14 45-8XC21-1AL2	53000.-	1	24	3RA14 45-8XC21-1BB4	65850.-	1

Star delta contactor assembly are also available as "ready to assemble kit". Please refer page no. 30 to 34.

3RA24, Star delta assemblies, with communication interface: Price on request

\*For ordering star-delta with Spring type terminals, please replace 13th digit from "1 to 2"







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## 3RA Load Feeders

### Direct On-Line Starters

For snapping onto standard mounting rails or for screw mounting

Size of MPCB / contactor	MPCB	+	Contactor	+	Link module	+	Standard mounting rail adaptor	Final Assembled Unit
S00 / S00	 3RV2	+	 3RT2 AC and DC coil	+	 3RA19 21-1DA00	+	Not required	
(S00, S0) / S0	 3RV2	+	 3RT2 AC coil DC coil	+	 3RA29 21-1AA00 3RA29 21-1BA00	+	Not required	
S2 / S2	 3RV1	+	 3RT1 AC coil DC coil	+	 3RA19 31-1AA00 3RA19 31-1BA00	+	 3RA19 32-1AA00	
S3 / S3	 3RV1	+	 3RT1 AC coil DC coil	+	 3RA19 41-1AA00 3RA19 41-1BA00	+	 3RA19 42-1AA00	

# – Available on request

**Link modules, single-unit packaging** – For mechanical and electrical connection between contactor and motor protection circuit-breaker with screw terminals

Method of operation	Size of contactor	Size of MPCB	Type	Unit MRP ₹	Std. pkg. (nos.)
AC/DC	S00	S00	3RA19 21-1DA00	335.-	1
AC	S0	S00 / S0	3RA29 21-1AA00*	325.-	1
	S2	S2	3RA19 31-1AA00	400.-	1
	S3	S3	3RA19 41-1AA00	825.-	1
DC	S0	S00 / S0	3RA29 21-1BA00*	325.-	1
	S2	S2	3RA19 31-1BA00	400.-	1
	S3	S3	3RA19 41-1BA00	825.-	1

**Standard mounting rail adaptor**

Size of MPCB	Size of contactor	Type	Unit MRP ₹	Std. pkg. (nos.)
S2	S2	3RA19 32-1AA00	1265.-	1
S3	S3	3RA19 42-1AA00	1595.-	1

\* For ordering link modules with spring type terminals, please replace 8th digit from '1' to '2'

## 3RA Load Feeders

### Direct On-Line Starters

For busbar systems

Size of MPCB / contactor	MPCB	+	Contactor	+	Link module	+	Busbar adaptor	Final Assembled Unit
S00 / S00		+		+		+		
	3RV2		3RT2 AC and DC coil		3RA19 21-1DA00		60mm – 8US12 51-5DS10	
S0 / S0		+		+		+		
	3RV2		3RT2 AC coil DC coil		3RA29 21-1AA00 3RA29 21-1BA00		60mm -- 8US12 51-5NT10	
S2 / S2		+		+		+		
	3RV1		3RT1 AC coil DC coil		3RA19 31-1AA00 3RA19 31-1BA00		40mm – 8US10 61-5FP08 60mm – 8US12 61-5FP08	

### Busbar adapters

Size of MPCB	Size of contactor	Version of busbar adaptor	Busbar centre to centre clearance mm	Type of busbar adaptor	Unit MRP ₹	Std. pkg. (nos.)
S00	S00	Rated current 25 A, 45 mm wide, 200mm long	60	8US12 51-5DS10	3370.-	1
S0	S0	Rated current 32 A, 45 mm wide, 260mm long		8US12 51-5NT10		1
S2	S2	55mm wide, 242mm long including screw and spacer	40	8US10 61-5FP08	3040.-	1
			60	8US12 61-5FP08	4220.-	1

### Device holders (busbar adaptors for 60mm system without infeed wires)



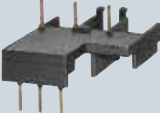
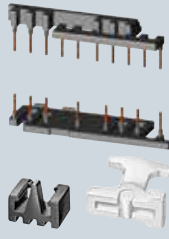




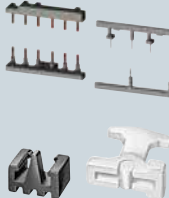
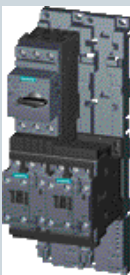


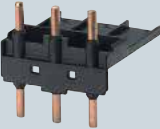









Size of MPCB	Size of contactor	Version of busbar adaptor	Busbar center to center clearance mm	Type of busbar adaptor	Unit MRP ₹	Std. pkg. (nos.)
S00, S0	S00, S0	Up to 25 A, 45 mm wide, 200 mm long	60	8US12 50-5A510	1345.-	1
						1
						1
S0	S0	Up to 400 A, 45 mm wide, 260 mm long	60	8US12 50-5AT10	2530.-	1
S2	S2	55 mm wide, 242 mm long for busbars	60	8US12 60-5AP00	3870.-	1



## 3RA Load Feeders

### Reversing Starters

For snapping onto standard mounting rails or for screw mounting

Size of MPCB / contactor	MPCB	+	Contactor – 2 nos	+	Link module	+	Assembly kit	+	Standard mounting rail	Final Assembled Unit
S00 / S00 <sup>1)</sup>	 3RV2	+	 3RT2 AC and DC coil	+	 3RA19 21-1DA00	+	 3RA29 13-2AA1	+	Not required	
S0 / S0 <sup>1)</sup>	 3RV2	+	 3RT2 AC coil DC coil	+	 3RA29 21-1AA00 3RA29 21-1BA00	+	 3RA29 23-2AA1	+	Not required	
S2 / S2	 3RV1	+	 3RT1 AC coil DC coil	+	 3RA19 31-1AA00 3RA19 31-1BA00	+	 3RA19 33-1B	+	 3RA19 24-2B	
S3 / S3	 3RV1	+	 3RT1 AC coil DC coil	+	 3RA19 41-1AA00 3RA19 41-1BA00	+	 3RA19 43-1B	+	 3RA19 24-2B	

1) The mechanical interlock kit for size S00/S0 also contains the wiring modules for the electrical and mechanical interlock between the contactors.

**Link modules, single-unit packaging** – For mechanical and electrical connection between contactor and motor protection circuit-breaker with screw terminals

Method of operation	Size of MPCB	Size of contactor	Type	Unit MRP ₹	Std. pkg. (nos.)
AC/DC	S00	S00	3RA19 21-1DA00	335.-	1
AC	S0	S0	3RA29 21-1AA00*	325.-	1
	S2	S2	3RA19 31-1AA00	400.-	1
DC	S3	S3	3RA19 41-1AA00	825.-	1
	S0	S0	3RA29 21-1BA00*	325.-	1
	S2	S2	3RA19 31-1BA00	400.-	1
	S3	S3	3RA19 41-1BA00	825.-	1

\* For ordering link modules for spring type terminals please relace 8th digit from '1' to '2'

### Assembly kit

Size of MPCB	Size of contactor	Assembly kit consists of wiring kit, connecting clips, rail adaptor	Unit MRP ₹	Std. pkg. (nos.)
S00	S00	3RA29 13-2AA1®	565.-	1
S0	S0	3RA29 23-2AA1®	855.-	1
S2	S2	3RA19 33-1B	3195.-	1
S3	S3	3RA19 43-1B	3670.-	1

@ For ordering installation kit for spring type terminal please replace last digit from '1' to '2'

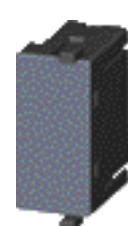
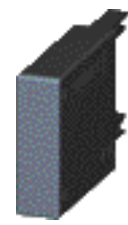
For S00, S0 mechanical interlock is included in the assembly kit. For S2, S3 mechanical interlock to be ordered separately.

## Accessories for 3RT2 and 3RH2 Contactors - Size S00...S0

### Surge suppressors

#### Screw and spring terminals

Size	For Contactor	Version	AC Operation	DC Operation	Type	Unit MRP ₹	Std. pkg. (nos.)
			Rated control supply voltage (U <sub>s</sub> )				
			V AC	V DC			
S00	3RT2.1 & 3RH2.	Varistors (with LED)	24 ... 48	12 ... 24	■ 3RT29 16-1JJ00	500.-	1
			48 ... 127	24 ... 70	3RT29 16-1JK00		1
			127 ... 240	70 ... 150	3RT29 16-1JL00		1
				150 ... 250	3RT29 16-1JP00		1
		RC Elements	24 ... 48	24 ... 70	3RT29 16-1CB00		1
			48 ... 127	70 ... 150	3RT29 16-1CC00		1
			127 ... 240	150 ... 250	3RT29 16-1CD00		1
		Diode assemblies	–	12 ... 250	3RT29 16-1EH00		1
		Diode with LED	–	24 ... 70	3RT29 16-1LM00		1
		Additional load module	180 ... 255	–	3RT29 16-1GA00		1
S0	3RT2.2	Varistors	24 ... 48	24 ... 70	■ 3RT29 26-1BB00	660.-	1
			48 ... 127	70 ... 150	■ 3RT29 26-1BC00		1
			127 ... 240	150 ... 250	3RT29 26-1BD00		1
			240 ... 400	–	■ 3RT29 26-1BE00		1
			400 ... 600	–	3RT29 26-1BF00		1
		RC Elements	24 ... 48	24 ... 70	3RT29 26-1CB00		1
			48 ... 127	70 ... 150	3RT29 26-1CC00		1
			127 ... 240	150 ... 250	3RT29 26-1CD00		1
			240 ... 400	–	3RT29 26-1CE00		1
			400 ... 600	–	3RT29 26-1CF00		1
		Diode assemblies	–	24	3RT29 26-1ER00		1
				30 ... 250	3RT29 26-1ES00		1
		Varistor with LED	127 ... 240	70 ... 150	3RT29 26-1JL00		1



### Sealable Covers

Size	For Contactor	Type	Unit MRP* ₹	Std. pkg. (nos.)
S00 and S0	3RT2.1, 3RT2.2 & 3RH2®	3RT29 16-4MA10	125.-	1 pack = 5 units

\* The MRP mentioned is for 1 unit

® Exception: Contactors and contactor relays auxiliary switch block mounted onto the front



### Safety main current connectors for 2 contactors

Size	For Contactor	Type	Unit MRP ₹	Std. pkg. (nos.)
S00	3RT2.1 & 3RT2.2	3RA29 16-1A	905.-	1
S0		3RA29 26-1A		1



### Coil terminal modules for S0

Size	For Contactor	Type	Unit MRP ₹	Std. pkg. (nos.)
Connection from top	3RT2.2	3RT29 26-4RA11	295.-	1
Connection from below		3RT29 26-4RB11		1
Connection diagonally		3RT29 26-4RC11		1



### ■ Stock items

## Accessories for 3RT2 and 3RH2 Contactors - Size S00, S0

### Coupling links for control by PLC

for mounting onto the coil terminals of the contactors

Size	For Contactor	Type	Unit MRP ₹	Std. pkg. (nos.)
S0	3RT2.2	■ 3RH29 24-1GP11	1595.-	1



### LED modules for indicating the contactor function

Size	For Contactor	Type	Unit MRP* ₹	Std. pkg. (nos.)
S0	3RT2.2	■ 3RT29 26-1QT00	530.-	1 pack = 5 units



### Links for paralleling

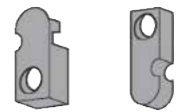
Size	For Contactor	Version	Max. Conductor cross-sections mm <sup>2</sup>	Type	Unit MRP ₹	Std. pkg. (nos.)
S00	3RT20 1	3-Pole with connection terminal	25 (stranded)	3RT19 16-4BB31	320.-	1
S0	3RT20 2		50 (stranded)	■ 3RT19 26-4BB31	480.-	1
S00	3RT23 1 & 3RT25 1	4-Pole with connection terminal	25 (stranded)	3RT19 16-4BB41	480.-	1



### Screw adapters for easy screw fixing

2 units required per contactor

Size	Type	Unit MRP* ₹	Std. pkg. (nos.)
S0	3RT19 26-4P	19.-	1 pack = 10 units



### OFF-Delay Devices

Size	Rated control supply voltage U <sub>s</sub> V	Type	Unit MRP ₹	Std. pkg. (nos.)
3RT2. 1, 3RT2. 2, 3RH2. . . -1BF40	110 AC/DC	3RT29 16-2BK01	3500.-	1
3RT2. 1, 3RT2. 2, 3RH2. . . -1BM40	220 / 230 AC/DC	3RT29 16-2BL01		1
3RT2. 1, 3RT2. 2, 3RH2. . . -1BB40	24 DC	3RT29 16-2BE01		1



### Mechanical latching blocks

Size	For Contactor	Rated control supply voltage U <sub>s</sub> V	Type	Unit MRP ₹	Std. pkg. (nos.)
S0	3RT2.2	24 AC/DC	3RT29 26-3AB31	2225.-	1
		110 AC/DC	3RT29 26-3AF31		1
		230 AC/DC	3RT29 26-3AP31		1



### Pneumatic delay blocks

for snapping onto the front of size S0 contactors

For Contactor	Function	Auxiliary contacts	Time setting range t Sec	Type	Unit MRP ₹	Std. pkg. (nos.)
3RT2.2	ON-Delay	1NO + 1NC	0.1 ... 30	■ 3RT29 26-2PA01	1735.-	1
			1 ... 60	3RT29 26-2PA11		1
	OFF-Delay	1NO + 1NC	0.1 ... 30	■ 3RT29 26-2PR01	2070.-	1
			1 ... 60	3RT29 26-2PR11		1



\* The MRP mentioned is for 1 unit

### ■ Stock items

## Accessories for 3RT2 and 3RH2 Contactors - Size S00, S0



### Solid state timer block

for snapping onto the front











Function	For contactors	Auxiliary contacts	Rated control supply voltage $U_s$ 50/60 Hz V	Time setting range $t$ Sec	Type*	Unit MRP ₹	Std. pkg. (nos.)
<b>On-Delay</b> (Varistor integrated)	3RT2 3RH21# 3RH24	1CO	24 ... 240 VAC/DC	0.05 ... 100	3RA28 13-1AW10	1850.-	1
		1NO + 1NC			3RA28 13-1FW10		1
<b>OFF-Delay</b> without auxiliary voltage (Varistor integrated)		1CO	24 ... 240 VAC/DC	0.05 ... 100	3RA28 15-1AW10	2205.-	1
		1NO + 1NC			3RA28 15-1FW10		1
<b>OFF-Delay</b> with auxiliary voltage (Varistor integrated)		1CO	24 ... 240 VAC/DC	0.05 ... 100	3RA28 14-1AW10	2030.-	1
		1NO + 1NC			3RA28 14-1FW10		1

### Solid state timer block with semiconductor output

for snapping onto the front

Function	For contactors	Auxiliary contacts	Rated control supply voltage $U_s$ 50/60 Hz V	Time setting range $t$ Sec	Type*	Unit MRP ₹	Std. pkg. (nos.)
<b>On-Delay</b> (Varistor integrated)	3RT2 3RH21# 3RH24	–	24 ... 240 VAC/DC	0.05 ... 100	3RA28 11-1CW10	2015.-	1
<b>OFF-Delay</b> with auxiliary voltage		–	24 ... 240 VAC/DC	0.05 ... 100	3RA28 12-1DW10	2370.-	1

# Cannot be fitted onto coupling relays.

Version	SIRIUS function modules				SIRIUS function modules for IO-Link		SIRIUS function modules for AS-Interface	
	A				B		C	
Direct on line starting (S00/S0)	*Pls refer above table for type reference <b>(Solid state timer block with semiconductor output)</b>				3RA27 11-1AA00*	3275.-	3RA27121AA00*	3605.-
								
Reversing starting (S00/S0)	3RA29 13-2AA1* (S00)	565.-	3RA29 23-2AA1* (S0)	855.-	3RA27 11-1BA00*	6185.-	3RA2712-1BA00*	6795.-
								
Star delta starting (S00/S0)	3RA28 16-0EW20*		3825.-		3RA27 11-1CA00*	9575.-	3RA27 12-1CA00*	10560.-
								

\*For ordering with spring type terminals, please replace 8th digit from '1' to '2'



## Accessories for 3RT1 Contactors (Size S2 ... S12)

**Solid state timer block** – for snapping onto the front of 3RT10, 3RT13, 3RT14, 3RT15

Function	Auxiliary contacts	Rated control supply voltage $U_s$ 50/60 Hz V	Time setting range t Sec	Type	Unit MRP ₹	Std. pkg. (nos.)
<b>On-Delay</b> (Varistor integrated)	1NO + 1NC	24 AC/DC	0.05 ... 1	■ 3RT19 26-2EJ11	1660.-	1
			0.5 ... 10	3RT19 26-2EJ21		1
			5 ... 100	■ 3RT19 26-2EJ31		1
	100 ... 127 AC	24 AC/DC	0.05 ... 1	3RT19 26-2EC11		1
			0.5 ... 10	3RT19 26-2EC21		1
			5 ... 100	3RT19 26-2EC31		1
	200 ... 240 AC	24 AC/DC	0.05 ... 1	3RT19 26-2ED11		1
			0.5 ... 10	3RT19 26-2ED21		1
			5 ... 100	3RT19 26-2ED31		1
<b>OFF-Delay without</b> auxiliary voltage (Varistor integrated)	1NO + 1NC	24 AC/DC	0.05 ... 1	3RT19 26-2FJ11	1975.-	1
			0.5 ... 10	3RT19 26-2FJ21		1
			5 ... 100	3RT19 26-2FJ31		1
	100 ... 127 AC/DC	24 AC/DC	0.05 ... 1	3RT19 26-2FK11		1
			0.5 ... 10	3RT19 26-2FK21		1
			5 ... 100	3RT19 26-2FK31		1
	200 ... 240 AC/DC	24 AC/DC	0.05 ... 1	3RT19 26-2FL11		1
			0.5 ... 10	3RT19 26-2FL21		1
			5 ... 100	3RT19 26-2FL31		1
<b>Star-Delta</b> (Varistor integrated)	1 NO Delayed + 1 NO Instantaneous Dead time - 50 ms	24 AC/DC	1.5 ... 30	3RT19 26-2GJ51	1820.-	1
		100 ... 127 AC	1.5 ... 30	3RT19 26-2GC51		1
		200 ... 240 AC	1.5 ... 30	3RT19 26-2GD51		1



**Solid-state timer blocks with semiconductor output** – for snapping onto the front of 3RT10 3, 3RT10 4, 3RT13, 3RT15

Function	Auxiliary contacts	Rated control supply voltage $U_s$ 50/60 Hz V	Time setting range t Sec	Type	Unit MRP ₹	Std. pkg. (nos.)
<b>On-Delay</b> (Varistor integrated)	–	24 ... 66 AC/DC	0.05 ... 1	3RT19 26-2CG11	1805.-	1
			0.5 ... 10	3RT19 26-2CG21		1
			5 ... 100	3RT19 26-2CG31		1
		90 ... 240 AC/DC	0.05 ... 1	3RT19 26-2CH11		1
			0.5 ... 10	3RT19 26-2CH21		1
			5 ... 100	3RT19 26-2CH31		1
<b>OFF-Delay with</b> auxiliary voltage (Varistor integrated)	–	24 ... 66 AC/DC	0.05 ... 1	3RT19 26-2DG11	2120.-	1
			0.5 ... 10	3RT19 26-2DG21		1
			5 ... 100	3RT19 26-2DG31		1
		90 ... 240 AC/DC	0.05 ... 1	3RT19 26-2DH11		1
			0.5 ... 10	3RT19 26-2DH21		1
			5 ... 100	3RT19 26-2DH31		1



### OFF-Delay Devices

Size	Rated control supply voltage $U_s$ V	Type	Unit MRP ₹	Std. pkg. (nos.)
S2, S3	24 DC	3RT19 16-2BE01	3340.-	1

### Mechanical latching blocks

Size	Rated control supply voltage $U_s$ V	Type	Unit MRP ₹	Std. pkg. (nos.)
S2	24 AC/DC	■ 3RT19 26-3AB31	2120.-	1
	110 AC/DC	3RT19 26-3AF31		1
	230 AC/DC	3RT19 26-3AP31		1



## Accessories for 3RT1 Contactors (Size S2 ... S12)

### Surge suppressors without LED

For fitting onto the coil terminals at top or bottom

Size	Version	AC Operation	DC Operation	Type	Unit MRP ₹	Std. pkg. (nos.)
		Rated control supply voltage (U <sub>c</sub> )				
		V AC	V DC			
S2, S3	Varistors	24 ... 48	24 ... 70	3RT19 26-1BB00	660.-	1
		48 ... 127	70 ... 150	3RT19 26-1BC00		1
		127 ... 240	150 ... 250	3RT19 26-1BD00		1
		240 ... 400	–	3RT19 26-1BE00		1
		400 ... 600	–	3RT19 26-1BF00		1
	RC Elements	24 ... 48	24 ... 70	3RT19 36-1CB00		1
		48 ... 127	70 ... 150	3RT19 36-1CC00		1
		127 ... 240	150 ... 250	3RT19 36-1CD00		1
		240 ... 400	–	3RT19 36-1CE00		1
		400 ... 600	–	3RT19 36-1CF00		1
	Diode Assemblies (Connectable at top)	–	24	3RT19 36-1ER00		1
		–	30 ... 250	3RT19 36-1ES00		1
	Diode Assemblies (Connectable at bottom)	–	24	3RT19 36-1TR00		1
		–	30 ... 250	3RT19 36-1TS00		1



Contactors coils (Size S6 to S12) comes with in-built varistor

For connecting to withdrawable coil with screw terminals with contactors with

—> 3RT1...-A... Conventional operating mechanism

—> 3RT1...-N... Solid state operating mechanism

S6, S10, S12	RC Elements	24 ... 48	24 ... 70	3RT19 56-1CB00	660.-	1
		48 ... 127	70 ... 150	3RT19 56-1CC00	2100.-	1
		127 ... 240	150 ... 250	3RT19 56-1CD00		1
		240 ... 400	–	3RT19 56-1CE00	660.-	1
		400 ... 600	–	3RT19 56-1CF00		1



### Coupling links for control by PLC

for mounting onto the coil terminals of the contactors

Size	Type	Unit MRP ₹	Std. pkg. (nos.)
S2 ... S3	■ 3RH19 24-1GP11	1625.-	1



### LED modules for indicating the contactor function

Size	Type	Unit MRP* ₹	Std. pkg. (nos.)
S2 ... S12	■ 3RT19 26-1QT00	529.-	1 pack = 5 units



\* The MRP mentioned is for 1 unit

#### ■ Stock items

## Accessories for 3RT1 Contactors (Size S2 ... S12)

### Box terminal blocks

Size	Version	Type	Unit MRP ₹	Std. pkg. (nos.)
S6	For round and ribbon cables (Upto 70 mm <sup>2</sup> )	3RT19 55-4G	1190.-	1
	For round and ribbon cables (Upto 120 mm <sup>2</sup> )	3RT19 56-4G	1680.-	1
	Auxiliary conductor connection for box terminals	3TX7 500-0A	675.-	1
S10 / S12	Upto 240 mm <sup>2</sup> with auxiliary conductor connection	3RT19 66-4G	4765.-	1



### Covers

#### Terminal covers for box terminals

Size	Version	Type	Unit MRP ₹	Std. pkg. (nos.)
S2	3 Pole	3RT19 36-4EA2	410.-	1
	4 Pole	3RT19 36-4EA4		1
S3	3 Pole	3RT19 46-4EA2		1
	4 Pole	3RT19 46-4EA4		1
S6	Length of 25 mm	3RT19 56-4EA2	635.-	1
S10 / S12	Length of 30 mm	3RT19 66-4EA2	1115.-	1



#### Terminal covers for cable lugs and busbar connection

S3	Length of 55 mm	3RT19 46-4EA1	555.-	1
S6	Length of 100 mm	3RT19 56-4EA1	1115.-	1
S10 / S12	Length of 120 mm	3RT19 66-4EA1	1430.-	1



#### Busbar cover between contactor and 3RB2 overload relay or wiring module for contactor assemblies

S10 / S12	Length of 42 mm	3RT19 66-4EA3	955.-	1
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#### For busbar cover of the flat line connectors for reversing and wye-delta assemblies

S6	Length of 38 mm	3RT19 56-4EA4	880.-	1
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### Sealable Covers

Size	Type	Unit MRP* ₹	Std. pkg. (nos.)
S2 ... S12	3RT19 26-4MA10	126.-	1 pack = 5 units



\* The MRP mentioned is for 1 unit

### Links for paralleling

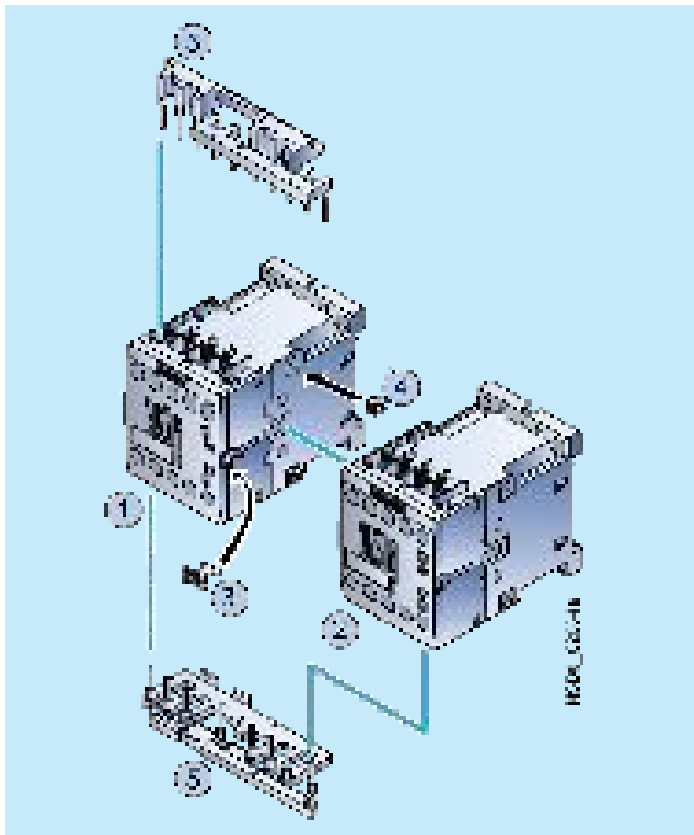
Size	Version	Max. Conductor cross-sections mm <sup>2</sup>	Type	Unit MRP ₹	Std. pkg. (nos.)
S2	3-Pole with connection terminal	95	3RT19 36-4BB31	635.-	1
S3	3-Pole with through hole (Star Jumpers)	185	3RT19 46-4BB31	1745.-	1
S6		–	3RT19 56-4BA31	955.-	1
S10 / S12		–	3RT19 66-4BA31	1265.-	1



### Stock items

## Accessories for 3RT2 Contactors

### S00 - Mechanical Interlock & Installation kit for reversing contactors



#### Individual Components

- ① ② Size S00 Power Contactor
- ③ Lateral mounted mechanical interlock
- ④ 2 Nos Connecting clips for two contactors
- ⑤ Wiring modules on the top & bottom

S. No.	For Contactor	Description	Type*	MRP ₹ (per unit / set)	Std. pkg. (nos.)
A	3RT20 1	Installation Kit Each kit contains: Mechanical interlock 2 Connecting clips for 2 contactors, wiring modules on the top & bottom	■ 3RA29 13-2AA1*	565.-	1 Unit
B	3RT2. 1	Each set contains: Mechanical interlock & 2 Connecting clips	3RA29 12-2H	310.-	1 pack (1 pack = 10 Sets)

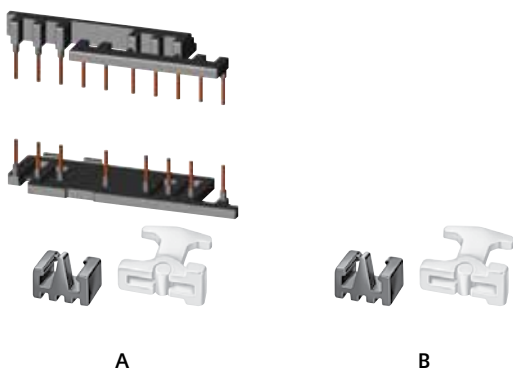
\* For ordering installation kit with spring type terminals please replace last digit from '1' to '2'

#### Mechanical Interlock - Size S00

	3-Pole	4-Pole
Lateral Mounting	B	B
Front Mounting	-	-

#### Installation Assembly for reversing contactor - Size S00

	3-Pole	4-Pole
Lateral Mounting	A	-
Front Mounting	-	-

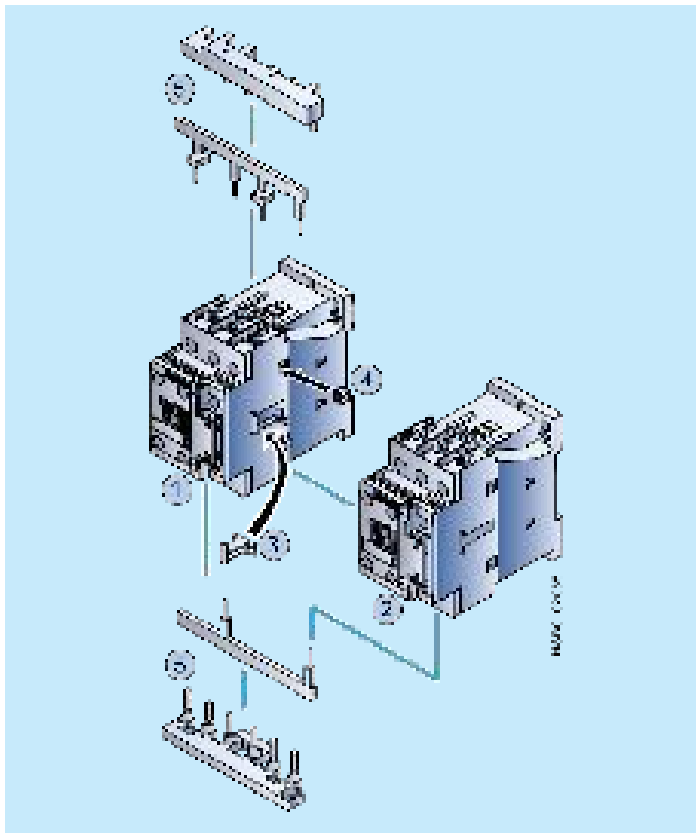


#### ■ Stock items

MRP - Maximum Retail Price

## Accessories for 3RT2 Contactors

### S0 - Mechanical Interlock & Installation kit for reversing contactors



#### Individual Components

- ① ② Size S0 Power Contactor
- ③ Lateral mounted mechanical interlock
- ④ 2 Nos Connecting clips for two contactors
- ⑤ Wiring modules on the top & bottom

S. No.	For Contactor	Description	Type	MRP ₹ (per unit / set)	Std. pkg. (nos.)
A	3RT20 2	<b>Installation Kit</b> Each kit contains: Mechanical interlock 2 Connecting clips for 2 contactors, wiring modules on the top & bottom	3RA29 23-2AA1*	855.-	1 Unit
B	3RT20 2	Each set contains: Mechanical interlock & 2 Connecting clips	3RA29 22-2H	310.-	1 pack (1 pack = 10 Sets)

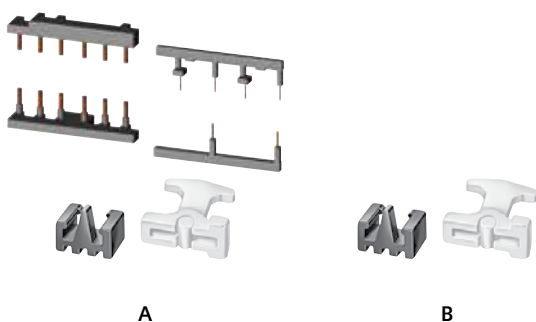
\* For ordering installation kit with spring type terminals please relace last digit from '1' to '2'

#### Mechanical Interlock - Size S0

	3-Pole	4-Pole
Lateral Mounting	B	B
Front Mounting	-	-

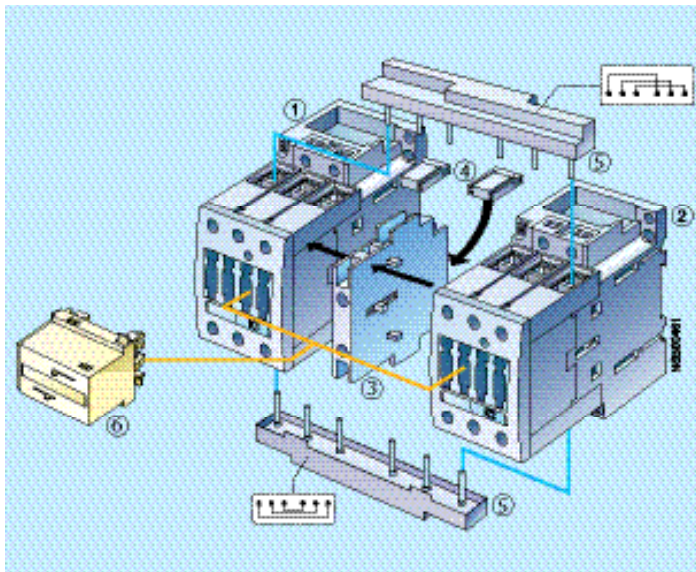
#### Installation Assembly for reversing contactor - Size S0

	3-Pole	4-Pole
Lateral Mounting	A	-
Front Mounting	-	-



# Accessories for 3RT1 Contactors

## S2 - Mechanical Interlock & Installation kit for reversing contactors



**Individual Components**

- ① ② Size S2 Power Contactor
- ③ Lateral mounted mechanical interlock
- ④ 2 Nos Connecting clips for two contactors
- ⑤ Wiring modules on the top & bottom
- ⑥ Front mounted mechanical interlock

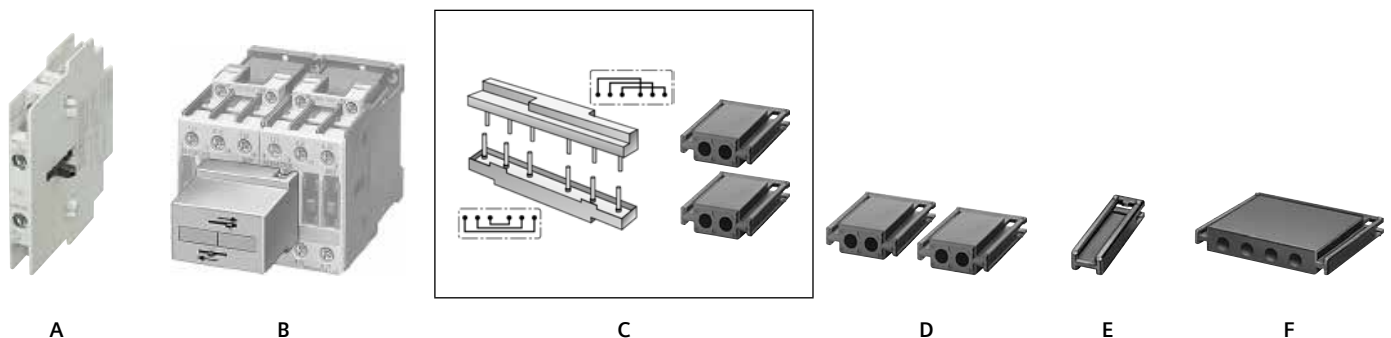
S. No.	For Contactor	Description	Type	MRP ₹ (per unit / set)	Std. pkg. (nos.)
A	3RT10 3 3RT13 3 3RT15 3	Lateral Mounted Mechanical Interlock (same as S0)	■ 3RA19 24-2B	555.-	1 Unit
B	3RT10 3	Front Mounted Mechanical Interlock	3RA19 24-1A	555.-	1 Unit
C	3RT10 3 1. 4 1. 5	<u>Installation Kit</u> Each kit contains: 2 Connecting clips for 2 contactors for lateral mounting, wiring modules on the top & bottom	3RA19 33-2A	320.-	1 Unit
D	3RT1. 3 1. 4 1. 5	Connecting Clips (for lateral mounted mechanical interlock) Each set consists of 2 Connecting clips	3RA19 32-2D	1585.-	1 pack (1 pack = 10 Sets)
E	3RT1. 3 1. 4	Connecting Clips (for front mounted mechanical interlock) Each set consists of 2 Connecting clips	3RA19 32-2C	1585.-	1 pack (1 pack = 10 Sets)
F	3RT1. 3	Connecting Clips (for lateral mounted mechanical interlock) for 4P Contactor Each set consists of 2 Connecting clips	3RA19 32-2G	1585.-	1 pack (1 pack = 10 Sets)

**Mechanical Interlock - Size S2**

	3-Pole	4-Pole
Lateral Mounting with 1NC contact	A+D	A+F
Front Mounting	B+E	-

**Installation Assembly for reversing cont. - Size S2**

	3-Pole	4-Pole
Lateral Mounting with 1NC contact	A+C	-
Front Mounting	-	-

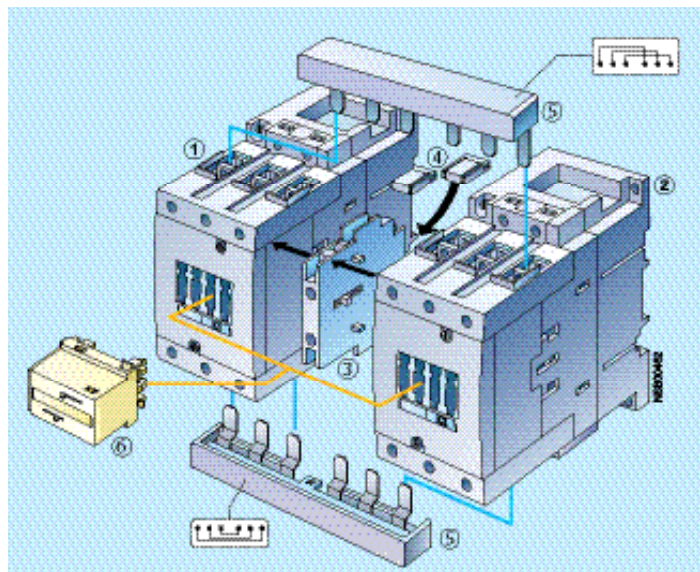


■ Stock items



## Accessories for 3RT1 Contactors

### S3 - Mechanical Interlock & Installation kit for reversing contactors



#### Individual Components

- ① ② Size S3 Power Contactor
- ③ Lateral mounted mechanical interlock
- ④ 2 Nos Connecting clips for two contactors
- ⑤ Wiring modules on the top & bottom
- ⑥ Front mounted mechanical interlock

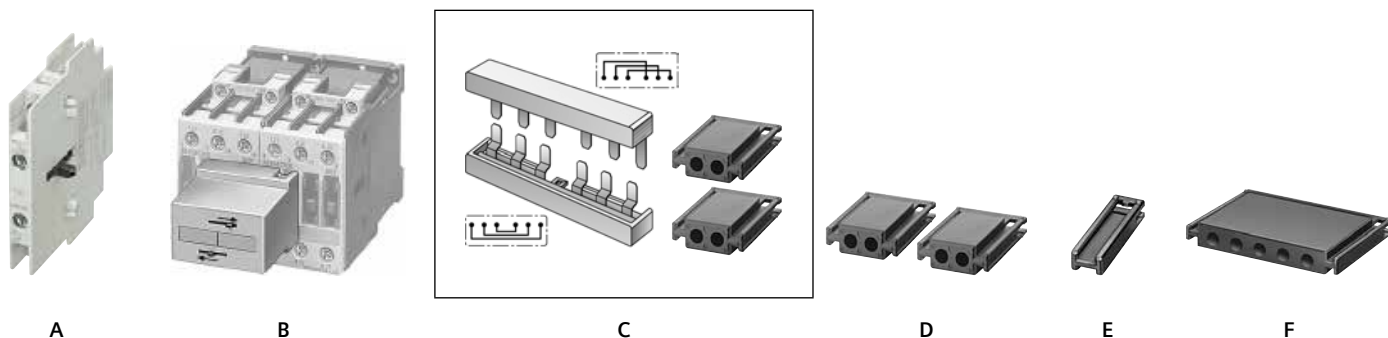
S. No.	For Contactor	Description	Type	MRP ₹ (per unit / set)	Std. pkg. (nos.)
A	3RT10 4 3RT13 4	Lateral Mounted Mechanical Interlock (same as S0)	■ 3RA19 24-2B	555.-	1 Unit
B	3RT10 4	Front Mounted Mechanical Interlock	3RA19 24-1A	555.-	1 Unit
C	3RT10 4	<u>Installation Kit</u> Each kit contains: 2 Connecting clips for 2 contactors for lateral mounting, wiring modules on the top & bottom	3RA19 43-2A	790.-	1 Unit
D	3RT1. 3 3RT1. 4 3RT1. 5	Connecting Clips (for lateral mounted mechanical interlock) Each set consists of 2 Connecting clips	3RA19 32-2D	1585.-	1 pack (1 pack = 10 Sets)
E	3RT1. 3 3RT1. 4	Connecting Clips (for front mounted mechanical interlock) Each set consists of 2 Connecting clips	3RA19 32-2C	1585.-	1 pack (1 pack = 10 Sets)
F	3RT1. 4	Connecting Clips (for lateral mounted mechanical interlock) for 4P Contactor Each set consists of 2 Connecting clips	3RA19 42-2G	3170.-	1 pack (1 pack = 10 Sets)

#### Mechanical Interlock - Size S3

	3-Pole	4-Pole
Lateral Mounting with 1NC contact	A+D	A+F
Front Mounting	B+E	-

#### Installation Assembly for reversing contactors - Size S3

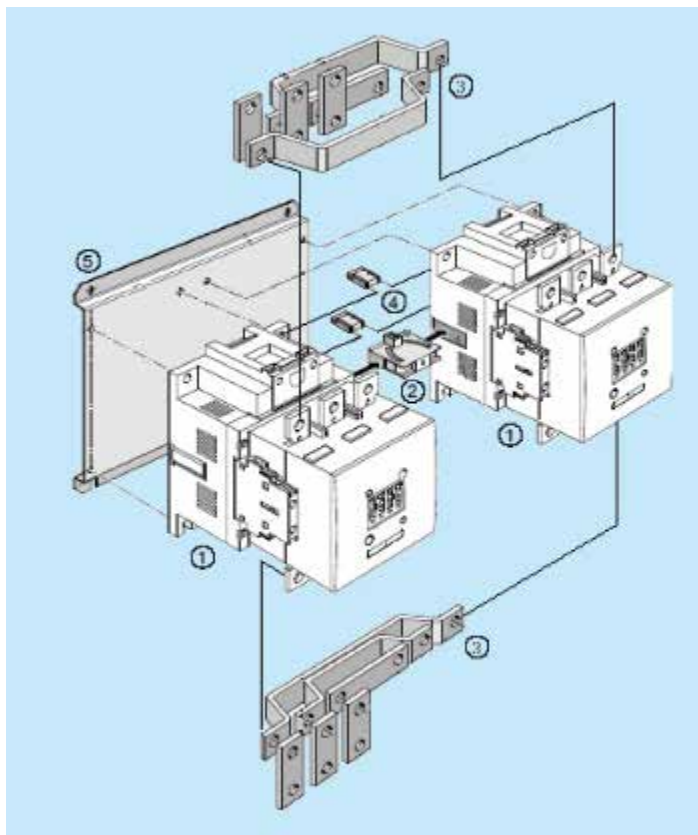
	3-Pole	4-Pole
Lateral Mounting with 1NC contact	A+C	-
Front Mounting	-	-



■ Stock items

## Accessories for 3RT1 Contactors

### S6 - Mechanical Interlock & Installation kit for reversing contactors



#### Individual Components

- ① Size S6 Power Contactor
- ② Lateral mounted mechanical interlock
- ③ Wiring modules on the top & bottom
- ④ 2 Nos Connecting clips for two contactors
- ⑤ Base plate

S. No.	For Contactor	Description	Type	MRP ₹ (per unit / set)	Std. pkg. (nos.)
A	3RT1. 5 3RT1. 6 3RT1. 7	Lateral Mounted Mechanical Interlock	■ 3RA19 54-2A	1750.-	1 Unit
B	3RT10 5	Base Plate	3RA19 52-2A	2640.-	1 Unit
C	3RT10 5	<u>Installation Kit</u> Each kit contains wiring modules on the top & bottom (For connection with box terminals)	3RA19 53-2A	3475.-	1 Unit
D	3RT10 5	<u>Installation Kit</u> Each kit contains wiring modules on the top & bottom (For connection without box terminals)	3RA19 53-2M	1750.-	1 Unit
E	3RT1. 3 3RT1. 4 3RT1. 5	Connecting Clips (for lateral mounted mechanical interlock) Each set consists of 2 Connecting clips	3RA19 32-2D	1585.-	1 pack (1 pack = 10 Sets)

#### Mechanical Interlock - Size S6

	3-Pole
Lateral Mounting	A

#### Installation Assembly for reversing cont. - Size S6

	3-Pole
Lateral Mounting (For contactor <u>with</u> box terminal)	A+B+C+E
Lateral Mounting (For contactor <u>without</u> box terminal)	A+B+D+E



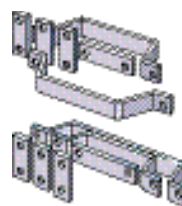
A



B



C



D



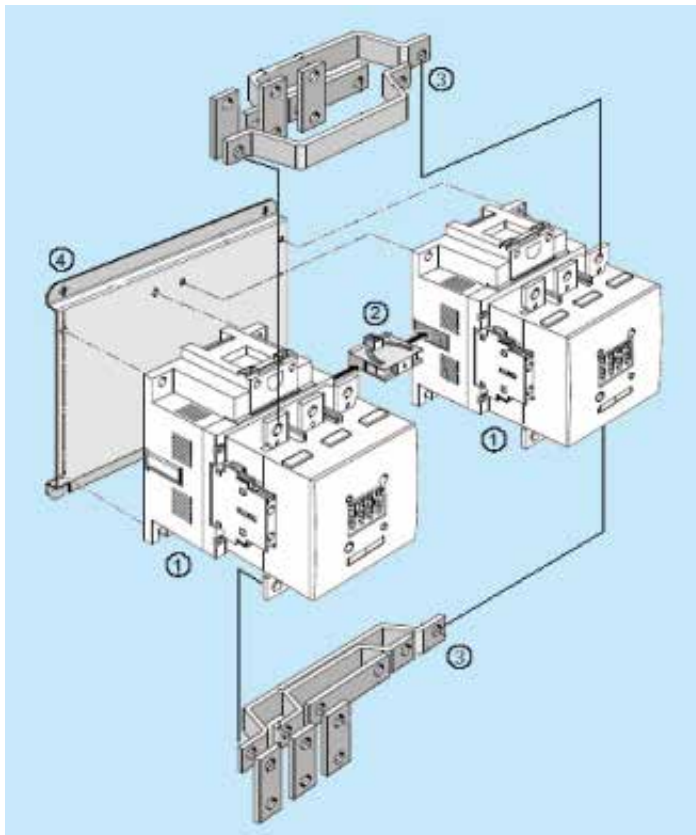
E

■ Stock items

MRP - Maximum Retail Price

## Accessories for 3RT1 Contactors

### S10 - Mechanical Interlock & Installation kit for reversing contactors



#### Individual Components

- ① Size S10 Power Contactor
- ② Lateral mounted mechanical interlock
- ③ Wiring modules on the top & bottom
- ④ Base plate

S. No.	For Contactor	Description	Type	MRP ₹ (per unit)	Std. pkg. (nos.)
A	3RT1. 5 3RT1. 6 3RT1. 7	Lateral Mounted Mechanical Interlock	■ 3RA19 54-2A	1750.-	1 Unit
B	3RT1. 6	Base Plate	3RA19 62-2A	3960.-	1 Unit
C	3RT1. 6	<u>Installation Kit</u> Each kit contains wiring modules on the top & bottom (For connection without box terminals)	3RA19 63-2A	5220.-	1 Unit

#### Mechanical Interlock - Size S10

	3-Pole
Lateral Mounting	A

#### Installation Assembly for reversing cont. - Size S10

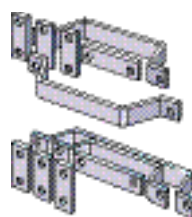
	3-Pole
Lateral Mounting (For contactor <u>with</u> box terminal)	A+B+C



A



B

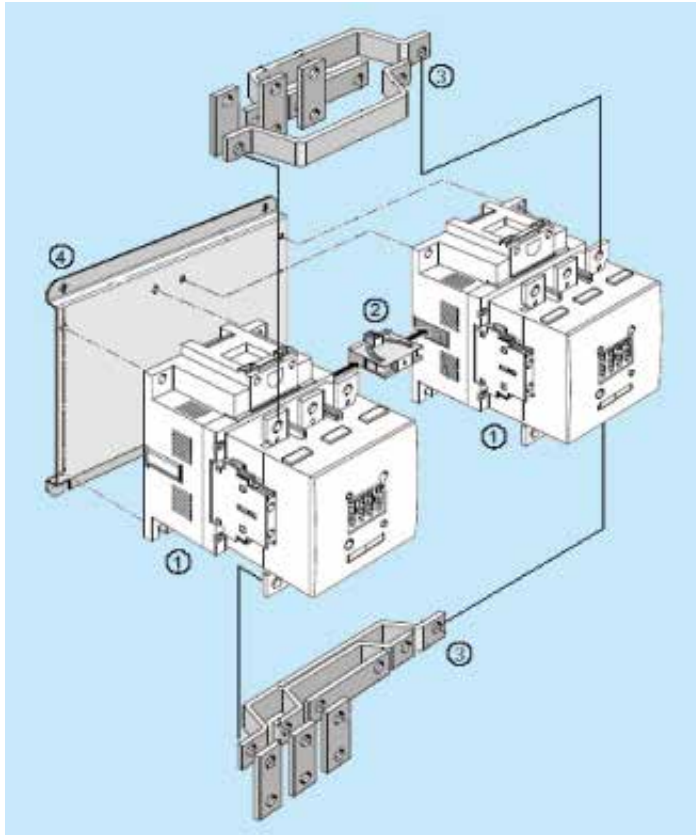


C

■ Stock items

## Accessories for 3RT1 Contactors

### S12 - Mechanical Interlock & Installation kit for reversing contactors



#### Individual Components

- ① Size S12 Power Contactor
- ② Lateral mounted mechanical interlock
- ③ Wiring modules on the top & bottom
- ④ Base plate

S. No.	For Contactor	Description	Type	MRP ₹ (per unit)	Std. pkg. (nos.)
A	3RT1.7	Lateral Mounted Mechanical Interlock	■ 3RA19 54-2A	1750.-	1 Unit
B	3RT1.7	Base Plate	3RA19 72-2A	4620.-	1 Unit
C	3RT1.7	<u>Installation Kit</u> Each kit contains wiring modules on the top & bottom (For connection without box terminals)	3RA19 73-2A	6965.-	1 Unit

#### Mechanical Interlock - Size S12

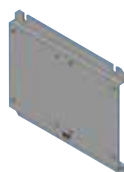
	3-Pole
Lateral Mounting	A

#### Installation Assembly for reversing cont. - Size S12

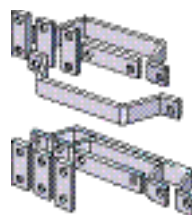
	3-Pole
Lateral Mounting (For contactor <u>with</u> box terminal)	A+B+C



A



B



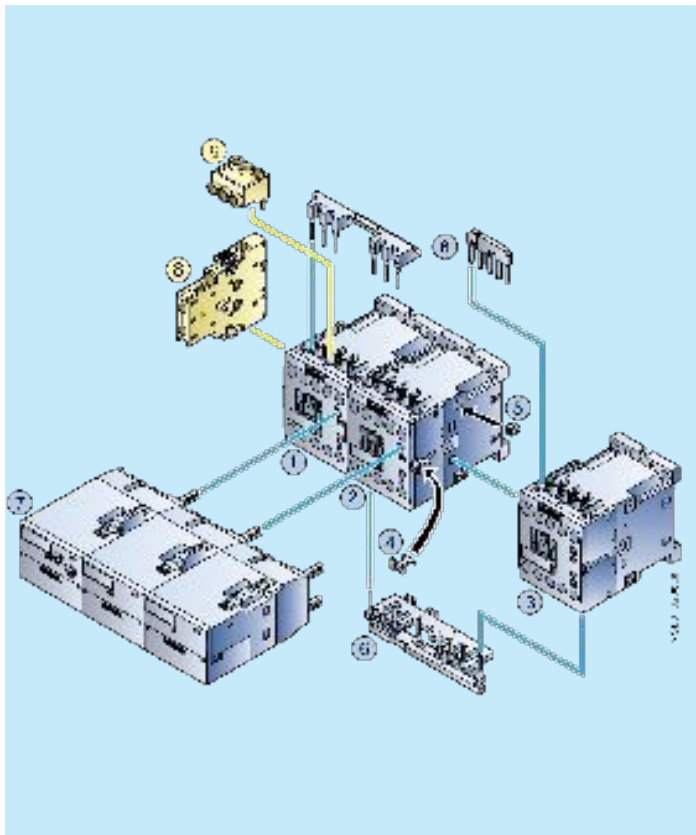
C

■ Stock items

MRP - Maximum Retail Price

## Accessories for 3RT2 Contactors

### S00-S00-S00 - Mechanical Interlock & Installation kit for star delta contactor assembly



#### Individual Components

- ① ② ③ Power Contactors:  
Line: S00  
Delta: S00  
Star: S00
- ④ Mechanical interlock
- ⑤ 4 Nos Connecting clips for contactors
- ⑥ Wiring modules on the top & bottom for connecting the main and the control path
- ⑦ Function module
- ⑧ Side mounted auxiliary contact block (optional, to be ordered separately)
- ⑨ 3-phase feeder terminal

S. No.	For Contactor	Description	Type	Unit MRP ₹	Std. pkg. (nos.)
A	3RT20 1	<u>Installation Kit</u> Each kit contains: Mechanical interlock 4 Connecting clips, wiring modules on the top & bottom, Star jumper	■ 3RA29 13-2BB1*	310.-	1 Unit
B	3RT20 1	<u>Function module</u>	■ 3RA28 16-0EW20	3825.-	1 Unit
C	3RT20 1	<u>3-phase feeder terminal</u>	■ 3RA29 13-3K	460.-	5 Unit

\* For ordering installation kit with spring type terminals please replace last digit from '1' to '2'



A



B

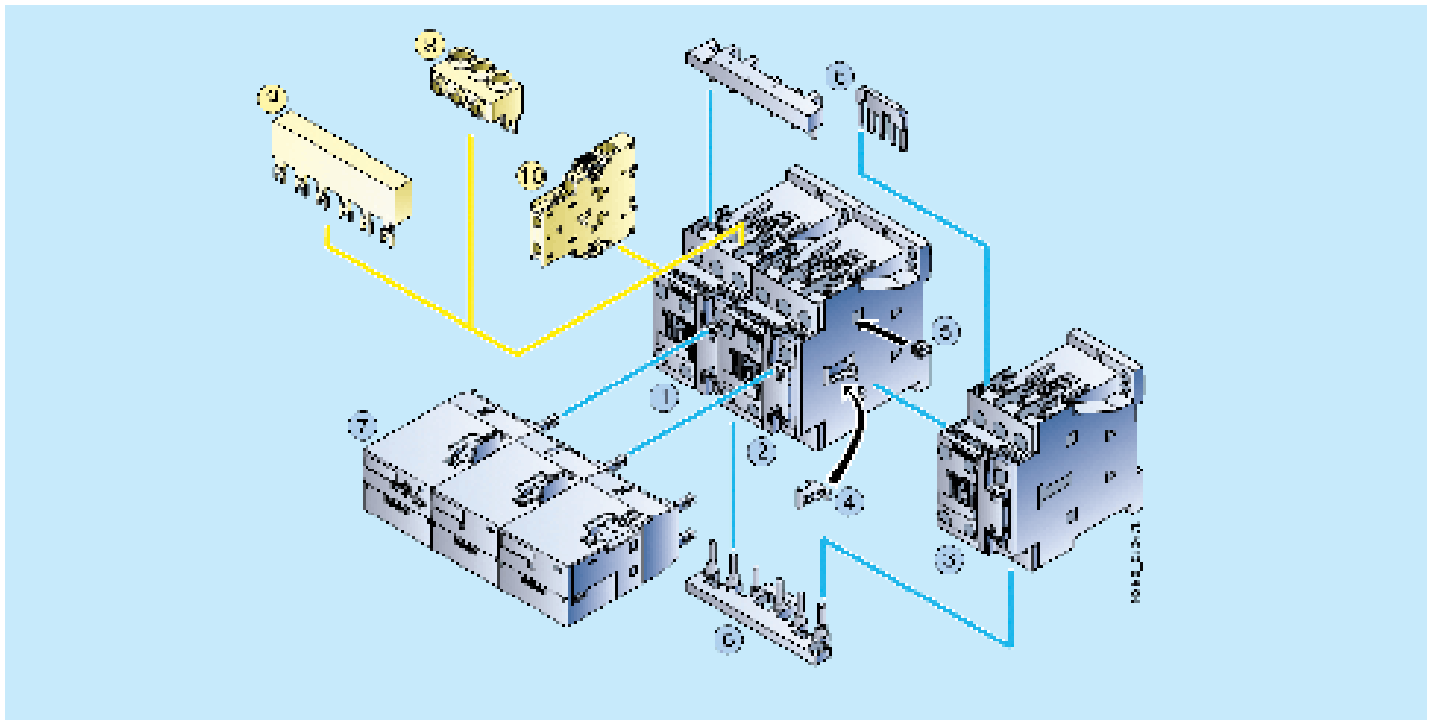


C

■ Stock items

## Accessories for 3RT2 Contactors

### S0-S0-S0 - Mechanical Interlock & Installation kit for star delta contactor assembly

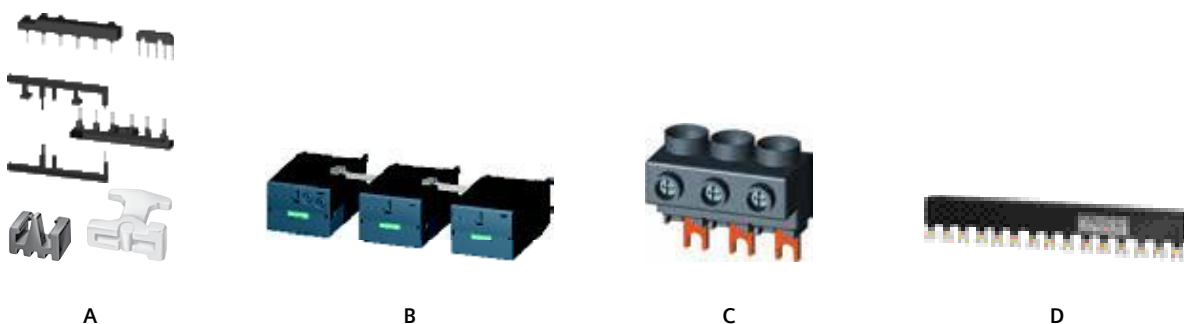


#### Individual Components

- ① ② ③ Power Contactors:  
Line: S0  
Delta: S0  
Star: S0
- ④ Mechanical interlock front / lateral
- ⑤ Connecting clips for contactors
- ⑥ Wiring modules on the top & bottom for connecting the main conducting paths, star jumper
- ⑦ Function module
- ⑧ 3-phase feeder terminal (optional, to be ordered separately)
- ⑨ 3-phase busbar (optional, to be ordered separately)
- ⑩ Side mounted auxiliary contact block (optional, to be ordered separately)

S. No.	For Contactor	Description	Type	Unit MRP ₹	Std. pkg. (nos.)
A	3RT20 2	<u>Installation Kit</u> Each kit contains: Mechanical interlock 4 Connecting clips, wiring modules on the top & bottom, Star jumper	■ 3RA29 23-2BB1*	935.-	1 Unit
B	3RT20 2	<u>Function module</u>	■ 3RA28 16-0EW20	3825.-	1 Unit
C	3RT20 2	<u>3-phase feeder terminal</u>	■ 3RV29 25-5AB	1005.-	1 Unit
D	3RT20 2	<u>3-phase busbar</u>	■ 3RV19 15-1AB	855.-	1 Unit

\* For ordering installation kit with spring type terminals please replace last digit from '1' to '2'

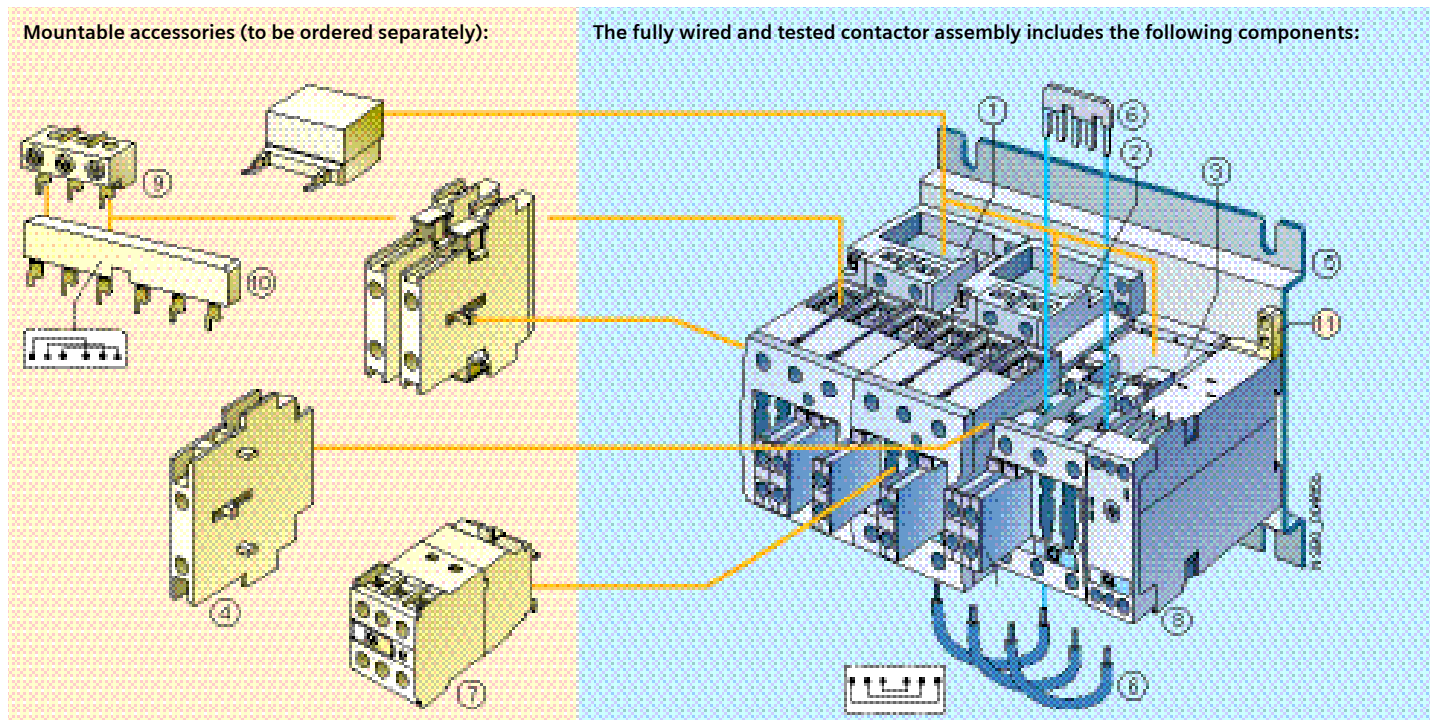


■ Stock items



## Accessories for 3RT1 Contactors

### S2-S2-S0 - Mechanical Interlock & Installation kit for star delta contactor assembly



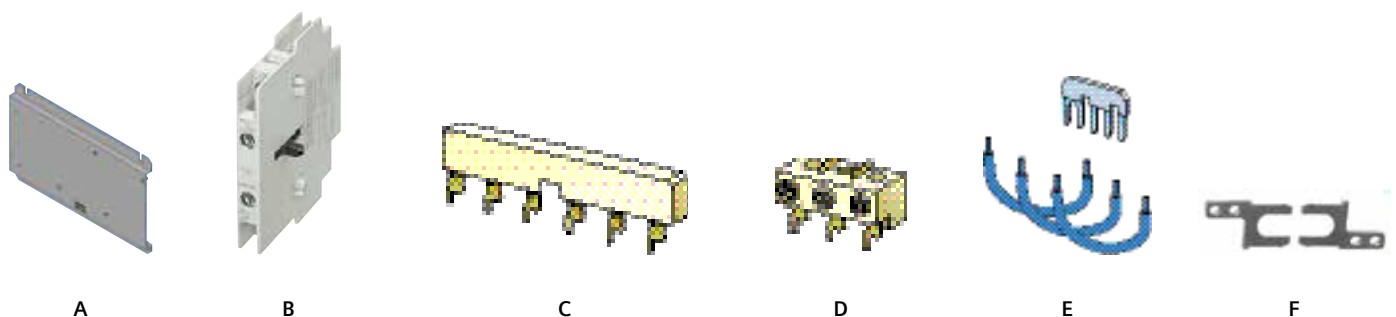
#### Individual Components

- ① ② ③ Power Contactors:  
Line : S2  
Delta : S2  
Star: S0
- ④ Mechanical interlock, lateral
- ⑤ Base plate
- ⑥ Wiring modules on the bottom and star jumper on the top for connecting the main current paths
- ⑦ or ⑧ ⑦ Solid-state time-delay auxiliary switch block, front  
⑧ 3RP star delta timer
- ⑨ 3-phase feeder terminal
- ⑩ 3-phase busbar
- ⑪ Push-in lug for timing relay screw mounting

S. No.	Description	Type	MRP ₹ (per unit / pack)	Std. pkg. (nos.)
A	Base plate	■ 3RA19 32-2B	475.-	1 Unit
B	Mechanical interlock, lateral	■ 3RA19 24-2B	555.-	1 Unit
C	3 Phase busbars	■ 3RV19 35-1A	1260.-	1 Unit
D	3-phase feeder terminal	■ 3RV19 35-5A	1740.-	1 Unit
E	Installation Kit Each kit contains: wiring modules on bottom, Star jumper on top	■ 3RA19 33-2C	400.-	1 Unit
F	Push-in lug	■ 3RP19 03-8K	155.-*	1 pack (1 pack = 10 Sets)

Appropriate star delta timer can be used for eg. 3RT19, 3RP

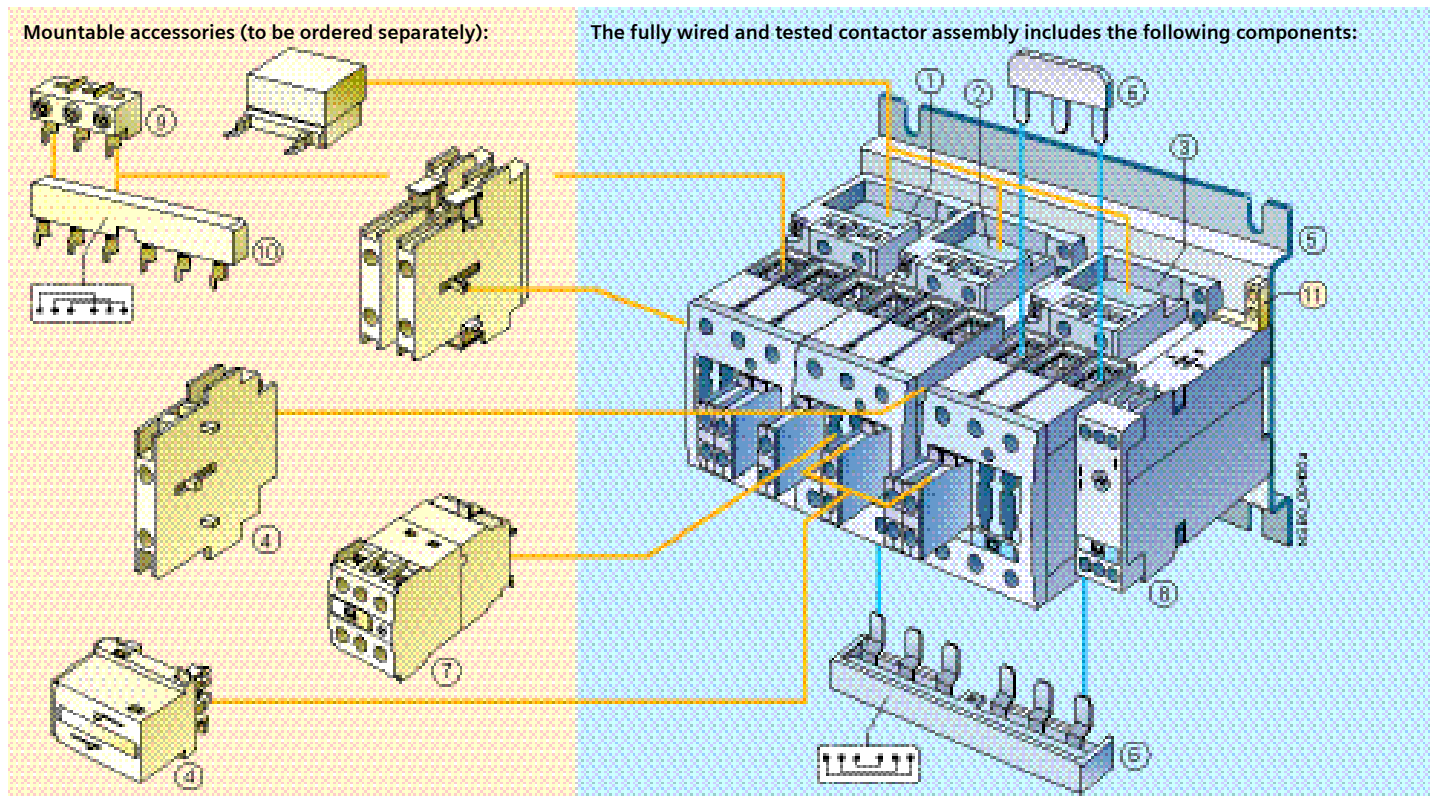
\* The MRP mentioned is for 1 pack



■ Stock items

## Accessories for 3RT1 Contactors

### S2-S2-S2 - Mechanical Interlock & Installation kit for star delta contactor assembly



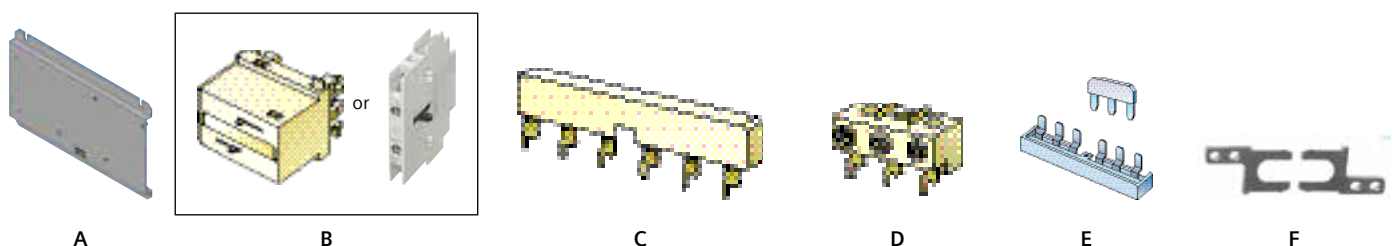
#### Individual Components

- ① ② ③ Power Contactors:  
Line : S2  
Delta : S2  
Star: S2
- ④ Mechanical interlock front / lateral
- ⑤ Base plate
- ⑥ Wiring modules on the bottom and star jumper on the top for connecting the main current paths
- ⑦ or ⑧ ⑦ Solid-state time-delay auxiliary switch block, front  
⑧ 3RP star delta timer
- ⑨ 3-phase feeder terminal
- ⑩ 3-phase busbar
- ⑪ Push-in lug for timing relay screw mounting

S. No.	Description	Type	MRP ₹ (per unit / pack)	Std. pkg. (nos.)
A	Base plate	■ 3RA19 32-2F	475.-	1 Unit
B	Mechanical interlock - front or lateral	■ 3RA19 24-1A or ■ 3RA19 24-2B	555.-	1 Unit
C	3 Phase busbars	■ 3RV19 35-1A	1260.-	1Unit
D	3-phase feeder terminal	■ 3RV19 35-5A	1740.-	1 Unit
E	Installation Kit Each kit contains: wiring module on the bottom, Star jumper on the top	■ 3RA19 33-2B	475.-	1 Unit
F	Push-in lug	■ 3RP19 03-8K	155.-*	1 pack (1 pack = 10 Sets)

Appropriate star delta timer can be used for eg. 3RT19, 3RP

\* The MRP mentioned is for 1 pack

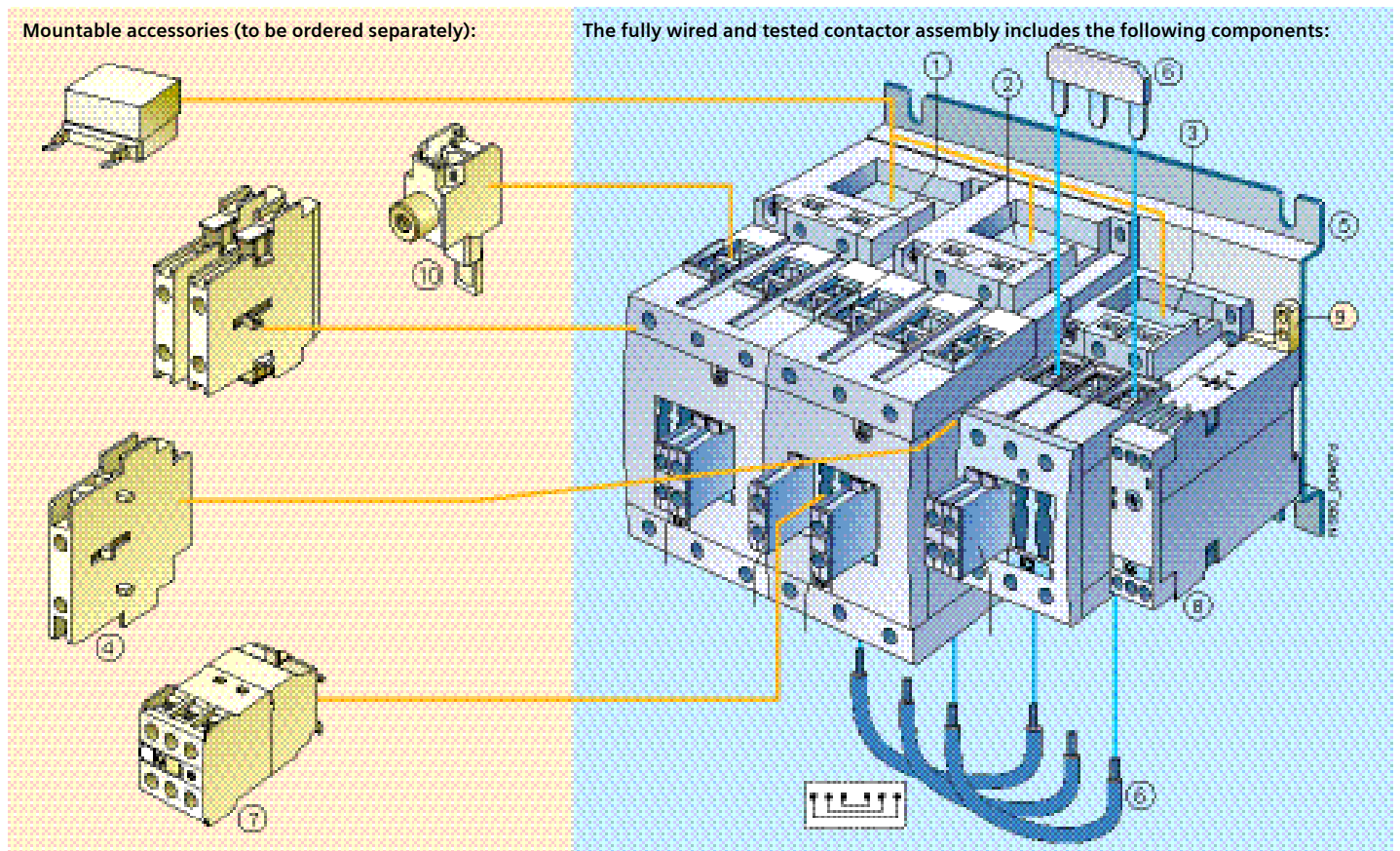


■ Stock items

MRP - Maximum Retail Price

## Accessories for 3RT1 Contactors

### S3-S3-S2 - Mechanical Interlock & Installation kit for star delta contactor assembly



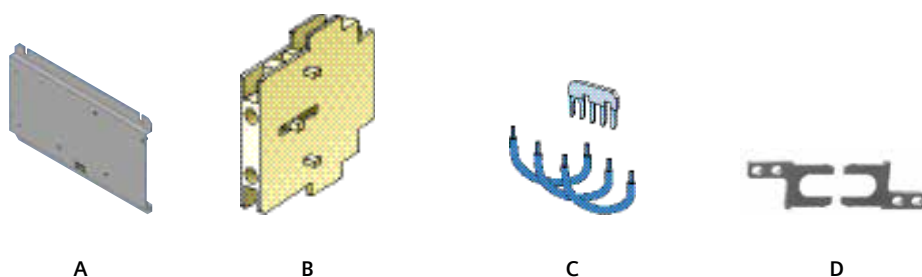
#### Individual Components

- ① ② ③ Power Contactors:  
Line : S3  
Delta : S3  
Star: S2
- ④ Mechanical interlock, lateral
- ⑤ Base plate
- ⑥ Wiring modules on the bottom and star jumper on the top for connecting the main current paths
- ⑦ or ⑧ ⑦ Solid-state time-delay auxiliary switch block, front  
⑧ 3RP star delta timer
- ⑨ Push-in lug for timing relay screw mounting
- ⑩ 1-phase feeder terminal

S. No.	Description	Type	MRP ₹ (per unit / pack)	Std. pkg. (nos.)
A	Base plate	■ 3RA19 42-2E	555.-	1 Unit
B	Mechanical interlock lateral	■ 3RA19 24-2B	555.-	1 Unit
C	<u>Installation Kit</u> Each kit contains: Wiring modules on bottom, Star jumper	■ 3RA19 43-2C	555.-	1 Unit
D	Push-in lug	■ 3RP19 03-8K	155.-*	1 pack (1 pack = 10 Sets)

Appropriate star delta timer can be used for eg. 3RT19, 3RP

\* The MRP mentioned is for 1 pack



■ Stock items

## Accessories for 3RT12

Description	Type	Unit MRP ₹	Std. pkg. (nos.)
Line voltage surge suppressors upto 690V AC upto 1000V AC	3RT19 66-1PV3	5690.-	1
	3RT19 66-1PV4	8320.-	1
Auxiliary contact blocks second, 2NO second, 1NO+1NC second, 2NC	3RH19 21-1KA20	685.-	1
	3RH19 21-1KA11	685.-	1
	3RH19 21-1KA02	685.-	1
Mechanical interlock mechanism	3RA19 54-2A	1750.-	1
Coil surge suppressor RC element, for 110V-127V coil RC element, for 220V-240V coil	3RT19 56-1CC00	2100.-	1
	3RT19 56-1CD00	2100.-	1

## Accessories for 3RT13/15/16

Contactor size	Description	Type	Unit MRP ₹	Std. pkg. (nos.)
Front mounted auxiliary contact block (for 3RT 13/15)				
S2-S12	1NO	3RH19 21-1CA10*	155.-	1
	1NC	3RH19 21-1CA01*	155.-	1
	2NO+2NC	3RH19 21-1FA22	580.-	1
Side mounted auxiliary contact block (for 3RT 13/15/16)				
S2-S12	2NO	3RH19 21-1EA20	685.-	1
	1NO+1NC	3RH19 21-1EA11	685.-	1
	2NC	3RH19 21-1EA02	685.-	1
Mechanical interlock kit (for 3RT 13)				
S2, S3	front mounting	3RA19 24-1A	555.-	1
	side mounting	3RA19 24-2B®	555.-	1

\* Exception - 3RT12 & 3RT16

@ With built in 1NC per contactor

## Accessories for 3RT23/25

Contactor size	Description	Type	Unit MRP ₹	Std. pkg. (nos.)
Mechanical Interlock for 3RT23				
S00 - S00	Side mounting (1 pack = 10 pcs)	3RA29 12-2H	310.-	1 pack
S0 - S0		3RA29 22-2H	310.-	1 pack

For using auxiliary contact blocks with 3RT23 / 3RT25 please refer pg. 10.

## Spares coils



## Magnetic coils (S0, S2, S3)

Size	AC Coil					DC Coil					
	Contactor type	Rated control supply voltage U <sub>s</sub> at 50/60 Hz V AC	Type	Unit MRP ₹	Std. pkg. (nos.)	Contactor type	Rated control supply voltage U <sub>s</sub> V DC	Type	Unit MRP ₹	Std. pkg. (nos.)	
S0	3RT20 23.. 3RT20 24.. 3RT20 25..	24V	3RT29 24-5AC21	535.-	1						
		110V	3RT29 24-5AG21		1						
		230V	3RT29 24-5AL21		1						
		400V, 50Hz	3RT29 24-5AV01		1						
	3RT20 26 3RT20 27 3RT20 28 3RT23 25 3RT23 26 3RT25 26	24V	3RT29 26-5AC21		1						
		110V	3RT29 26-5AG21		1						
		230V	3RT29 26-5AL21		1						
		400V, 50Hz	3RT29 26-5AV01		1						
S2	3RT10 34	24V	3RT19 34-5AC21	735.-	1	3RT10 3 3RT13 3 3RT15 3	24V	3RT19 34-5BB41	1190.-	1	
		110V	3RT19 34-5AG21		1		110V	3RT19 34-5BF41		1	
		230V	3RT19 34-5AL21		1		220V	3RT19 34-5BM41		1	
		400V	3RT19 34-5AV01		1						
	3RT10 35 3RT10 36 3RT13 3. 3RT15 3.	24V	3RT19 35-5AC21	1285.-	1						
		110V	3RT19 35-5AG21		1						
		230V	3RT19 35-5AL21		1						
		400V	3RT19 35-5AV01		1						
S3	3RT10 44	24V	3RT19 44-5AC21	2385.-	1	3RT10 4 3RT13 4 3RT14 4 3RT15 4	24V	3RT19 44-5BB41	3025.-	1	
		110V	3RT19 44-5AG21		1		110V	3RT19 44-5BF41		1	
		230V	3RT19 44-5AL21		1		220V	3RT19 44-5BM41		1	
		400V	3RT19 44-5AV01		1						
	3RT10 45/46 3RT13 4. 3RT14 46 3RT15 4.	24V	3RT19 45-5AC21	2385.-	1						
		110V	3RT19 45-5AG21		1						
		230V	3RT19 45-5AL21		1						
		400V	3RT19 45-5AV01		1						

## Withdrawable coils (S10, S12)

### Conventional operating mechanism

Size	AC Coil				
	Contactor type	Rated control supply voltage $U_c$ at 40 to 60Hz AC, DC V AC/DC	Type	Unit MRP ₹	Std. pkg. (nos.)
S10	3RT12 6	23...26V AC/DC	3RT19 66-5AB31	7395.-	1
		110...127V AC/DC	3RT19 66-5AF31		1
		220...240V AC/DC	3RT19 66-5AP31		1
S12	3RT12 7	23...26V AC/DC	3RT19 75-5AB31	8900.-	1
		110...127V AC/DC	3RT19 75-5AF31 8K		1
		220...240V AC/DC	3RT19 75-5AP31 8K		1

### Solid-state operating mechanism (24V DC PLC output)

Size	DC Coil				
	Contactor type	Rated control supply voltage $U_c$ at 40 to 60Hz AC, DC V AC/DC	Type	Unit MRP ₹	Std. pkg. (nos.)
S10	3RT12 6	96...127V	3RT19 66-5NF31	9540.-	1
		200...277V	3RT19 66-5NP31		1
S12	3RT12 7	21...27.3V	3RT19 75-5NB31	12595.-	1
		96...127V	3RT19 75-5NF31		1
		200...277V	3RT19 75-5NP31		1

For 24 V DC PLC output/PLC relay output, with remaining lifetime indicator (RLT) [Withdrawable coil with lateral solid-state module]

S6	3RT10 5 3RT14 5	96...127V AC/DC	3RT19 55-5PF31	14310.-	1
		200...277V AC/DC	3RT19 55-5PP31	14310.-	1
S10	3RT10 6 3RT14 6	96...127V AC/DC	3RT19 65-5PF31	18135.-	1
		200...277V AC/DC	3RT19 65-5PP31	18135.-	1
S12	3RT10 7 3RT14 7	96...127V AC/DC	3RT19 75-5PF31	24180.-	1
		200...277V AC/DC	3RT19 75-5PP31	24180.-	1



## Spare parts for 3RT, 3RH contactors and contactor relays

### Arc Chambers for 3RT10 / 3RT14

Size	Contactor type	Version	Type	Unit MRP ₹	Std. pkg. (nos.)
S2	3RT10 3	Arc chutes 3-pole	3RT19 36-7A	1130.-	1
S3	3RT10 4		3RT19 46-7A	1895.-	1
	3RT14 46 <sup>1)</sup>		3RT19 46-7A	1895.-	1
S6	3RT10 54		3RT19 54-7A	2260.-	1
	3RT10 55		3RT19 55-7A	2555.-	1
	3RT10 56		3RT19 56-7A	2815.-	1
S10	3RT10 64		3RT19 64-7A	2890.-	1
	3RT10 65		3RT19 65-7A	3120.-	1
	3RT10 66		3RT19 66-7A	3225.-	1
S12	3RT10 75		3RT19 75-7A	3625.-	1
	3RT10 76		3RT19 76-7A	3730.-	1
S6	3RT14 56 <sup>1)</sup>		3RT19 56-7B	3745.-	1
S10	3RT14 66 <sup>1)</sup>		3RT19 66-7B	4375.-	1
S12	3RT14 76 <sup>1)</sup>		3RT19 76-7B	5170.-	1

1) For 3RT14 AC-1 duty power contactors

## Adaptor plates

Description (Adaptor plates for using in place of 3TF/3TR contactors)	MLFB	Unit MRP ₹	MOQ
3RT10/3RT20 15/16/17 replacing 3TF/3TR 30/31	3TX80120A	95.-	5
3RT10/3RT20 25/26 replacing 3TF/3TR 32/33	3TX80250A	145.-	5
3RT10 34/35 replacing 3TF/3TR 34/35	3TX80400A	200.-	5
3RT10 36 replacing 3TF/3TR 46	3TX80500A	235.-	5
3RT10 44/45 replacing 3TF/3TR 47 / 3TF 477	3TX80800A	465.-	1
3RT10 45/46 replacing 3TF/3TR 48/49	3TX80950A	485.-	1
3RT10 56 replacing 3TF/3TR 52	3TX81850A	840.-	1
3RT10 64 replacing 3TF/3TR 53	3TX82250A	900.-	1

To replace existing contactor of any other brand please contact nearest sales office.

Description (Adaptor plates for using in place of old relay terminal block required for independent mounting)	MLFB	Unit MRP ₹	MOQ
3RU29/3RU19 (1.8-25A) replacing 3UA/3UR 52 (1-25A)	3UX8025	230.-	1
3RU19 (5.5-50A) replacing 3UA/3UR 55 (10-45A)	3UX8050	270.-	1
3RU19 (18-100A) replacing 3UA/3UR 58 (16-95A) & replacing 3UA/3UR 5830 (70-120A)	3UX8100	305.-	1

## Contacts with fixing parts

### For 3RT10, 3 pole power contactors

1 set = 3 moving and 6 fixed switching contacts with fixing parts

Size	Contact type	Type	Unit MRP ₹	Std. pkg. (nos.)
S2	3RT10 34	3RT19 34-6A	1760.-	1
	3RT10 35	3RT19 35-6A	2470.-	1
	3RT10 36	3RT19 36-6A	2860.-	1
S3	3RT10 44	3RT19 44-6A	3810.-	1
	3RT10 45	3RT19 45-6A	5075.-	1
	3RT10 46	3RT19 46-6A	6835.-	1
S6	3RT10 54	3RT19 54-6A	7465.-	1
	3RT10 55	3RT19 55-6A	9365.-	1
	3RT10 56	3RT19 56-6A	11920.-	1
S10	3RT10 64	3RT19 64-6A	13510.-	1
	3RT10 65	3RT19 65-6A	15095.-	1
	3RT10 66	3RT19 66-6A	17800.-	1
S12	3RT10 75	3RT19 75-6A	23510.-	1
	3RT10 76	3RT19 76-6A	30190.-	1

### For 3RT14 AC-1 duty power contactors

1 set = 3 movable and 6 fixed switching elements with fixing parts

Size	Contact type	Type	Unit MRP ₹	Std. pkg. (nos.)
S3	3RT14 46	3RT19 46-6D	11275.-	1
S6	3RT14 56	3RT19 56-6D	18115.-	1
S10	3RT14 66	3RT19 66-6D	28215.-	1
S12	3RT14 76	3RT19 76-6D	36225.-	1

### For 3RT13, 4 pole AC-1 duty contactors

1 set = 4 movable and 8 fixed switching elements with fixing parts

Size	Contact type	Type	Unit MRP ₹	Std. pkg. (nos.)
S2	3RT13 26	3RT19 36-6E	3500.-	1
S3	3RT13 44	3RT19 44-6E	10485.-	1
	3RT13 46	3RT19 46-6E	13110.-	1

## Spares for 3RT12 vacuum contactors

For contactor		Type	Unit MRP ₹	Std. pkg. (nos.)
Spare coils <sup>1)</sup>				
3RT126		3RT19 66-5A..1	7395.-	1
3RT127		3RT19 75-5AB31 3RT19 75-5AV31 3RT19 75-5AF31 8K 3RT19 75-5AP31 8K	8900.-	1
Solid state operating mechanism				
3RT126	96... 127V AC/DC 200...277V AC/DC	3RT19 66-5NF31	9540.-	1
		3RT19 66-5NP31	9540.-	1
3RT127	200...277V AC/DC	3RT19 75-5NP31	12595.-	1
Spare vacuum bottles (set of 3)				
3RT1264		3RT19 64-6V	47885.-	1
3RT1265		3RT19 65-6V	55290.-	1
3RT1266		3RT19 66-6V	67450.-	1
3RT1275		3RT19 75-6V	81510.-	1
3RT1276		3RT19 76-6V	98115.-	1

<sup>1)</sup> Pls. fill in coil voltage code (..) from page 10 for 3RT12



Siemens switchgear. Tried, tested, trusted.

## Contactor relays - SICONT<sup>Plus</sup> 3TH3

Contactor size	Rated current (A) Ie AC15 at 230V	AC 50 Hz coil (MRPs for 110, 230, 415V)				DC coil (MRP*s for 24, 110, 220, 250V)			
		Aux. contacts	Type Pl. fill in coil voltage code	Unit MRP ₹	Std. pkg. (nos.)	Aux. contacts	Type Pl. fill in coil voltage code	Unit MRP ₹	Std. pkg. (nos.)
0	10	4NO <sup>§</sup>	■ 3TH30 40-0A..	1025.-	1	4NO <sup>§</sup>	■ 3TH30 40-0B..	1405.-	1
		3NO + 1NC <sup>§</sup>	■ 3TH30 31-0A..		1	3NO + 1NC <sup>§</sup>	■ 3TH30 31-0B..		1
		2NO + 2NC <sup>§</sup>	■ 3TH30 22-0A..		1	2NO + 2NC <sup>§</sup>	■ 3TH30 22-0B..		1

## Power contactors - SICOP 3TF

Contactor size	Rated current (A) Ie AC3 upto 415V, 50Hz, 3ph	Typical Motor kW at 415V 50Hz, 3ph	AC 50 Hz coil (MRPs for 110, 230, 415V)				DC coil (MRPs for 24, 110, 220, 250V)					
			Auxiliary contacts	Type Pl. fill in coil voltage code	Unit MRP ₹	Std. pkg. (nos.)	Auxiliary contacts	Type Pl. fill in coil voltage code	Unit MRP ₹	Std. pkg. (nos.)		
0	9	4	1NO <sup>§</sup>	■ 3TF30 10-0A..	915.-	1	1NO <sup>§</sup>	■ 3TF30 10-0B..	1540.-	1		
			1NC <sup>§</sup>	■ 3TF30 01-0A..			1NC <sup>§</sup>	■ 3TF30 01-0B..				
	12	5.5	1NO <sup>§</sup>	■ 3TF31 10-0A..	1025.-	1	1NO <sup>§</sup>	■ 3TF31 10-0B..	1675.-	1		
			1NC <sup>§</sup>	■ 3TF31 01-0A..			1NC <sup>§</sup>	■ 3TF31 01-0B..				
1	16	7.5	- <sup>§</sup>	■ 3TF32 00-0A..	1050.-	1	- <sup>§</sup>	■ 3TF32 00-0B..	1850.-	1		
			22	11	- <sup>§</sup>	■ 3TF33 00-0A..	1395.-	1	- <sup>§</sup>	■ 3TF33 00-0B..	2480.-	1
2	32	15	- <sup>§</sup>	■ 3TF34 00-0A..†	3145.-	1	- <sup>§</sup>	■ 3TF34 00-0B..†	5855.-	1		
			38	18.5	- <sup>§</sup>	■ 3TF35 00-0A..†	4730.-	1	- <sup>§</sup>	■ 3TF35 00-0B..†	6875.-	1
					40	18.5	- <sup>§</sup>	■ 3TF35 00-0A..ZT00 †	4795.-	1	- <sup>§</sup>	■ 3TF35 00-0B..ZT00†
3	45	22	2NO + 2NC <sup>§</sup>	■ 3TF46 02-0A..ZA01®	6595.-	1	2NO + 2NC	3TF46 02-0D..ZA01®	9705.-	1		
			63	30	2NO + 2NC <sup>§</sup>	■ 3TF47 02-0A..ZA01®	9270.-	1	2NO + 2NC	3TF47 02-0D..ZA01®	11165.-	1
			65	30	2NO + 2NC <sup>§</sup>	3TF47 02-0A..ZT00	9335.-	1	2NO + 2NC <sup>§</sup>	■ 3TF47 02-0D..ZT00	11270.-	1
			70	37	2NO + 2NC <sup>§</sup>	■ 3TF47 72-0A..	10025.-	1	2NO + 2NC	3TF47 72-0D..	12755.-	1
4	75	42	2NO + 2NC <sup>§</sup>	■ 3TF48 22-0A..ZA01®	11675.-	1	2NO + 2NC	3TF48 22-0D..ZA01®	13635.-	1		
			85	45	2NO + 2NC <sup>§</sup>	■ 3TF49 22-0A..ZA01®	14100.-	1	2NO + 2NC	3TF49 22-0D..ZA01®	16780.-	1
6	110	55	2NO + 2NC <sup>§</sup>	■ 3TF50 02-0A..	16900.-	1	2NO + 2NC	3TF50 02-0D..	19555.-	1		
			140	75	2NO + 2NC <sup>§</sup>	■ 3TF51 02-0A..	22290.-	1	2NO + 2NC	3TF51 02-0D..	26865.-	1
8	170	90	2NO + 2NC <sup>§</sup>	■ 3TF52 02-0A..	29800.-	1	2NO + 2NC	3TF52 02-0D..	35175.-	1		
			205	110	2NO + 2NC <sup>§</sup>	■ 3TF53 02-0A..	32595.-	1	2NO + 2NC	3TF53 02-0D..	39325.-	1
10	250	132	2NO + 2NC <sup>§</sup>	■ 3TF54 02-0A..	38515.-	1	2NO + 2NC	3TF54 02-0D.. <sup>1)</sup>	44730.-	1		
			300	160	2NO + 2NC <sup>§</sup>	■ 3TF55 02-0A..	46620.-	1	2NO + 2NC	3TF55 02-0D.. <sup>1)</sup>	50945.-	1
12	400	200	2NO + 2NC <sup>§</sup>	■ 3TF56 02-0A..	58425.-	1	2NO + 2NC	3TF56 02-0D.. <sup>1)</sup>	62915.-	1		
			475	250	2NO + 2NC <sup>§</sup>	■ 3TF57 02-0C..	78355.-	1	2NO + 2NC	3TF57 02-0D.. <sup>1)</sup>	87645.-	1
14	630	355	4NO + 4NC	3TF68 44-0C..	241400.-	1	3NO + 3NC	3TF68 33-1D.. <sup>2)</sup>	272410.-	1		
			820	450	4NO + 4NC	3TF69 44-0C..	365170.-	1	3NO + 3NC	3TF69 33-1D.. <sup>2)</sup>	412100.-	1

1) Please connect DC coil circuit as recommended.

2) MRP\* includes control contactor

@ For box type (SIGUT) terminals, order 2 nos 3TX7 460-0E, MRP\* ₹ 290.- each.

† For special execution with side mounted aux. contact blocks refer page 42.

§ For more aux. contacts, pl. see table below.

### AC 50Hz coil code : 3TF30 to 3TF56, 3TH3

Coil voltage (V)	24	42	■ 110	■ 230	■ 415
Code	B0	D0	F0	P0	R0

### Wide band AC 50 Hz coil code : 3TF30 to 3TF35

Coil voltage (V)	70-140	150-280	260-460
Code	W110	W220	W415

### AC 50/60 Hz coil code : 3TF57, 3TF68/69

Coil voltage (V)	110-132	■ 220-240	380-460
Code	F7	M7	Q7

### DC coil code : 3TF30 to 3TF69, 3TH3

Coil voltage (V)	■ 24	42	48	110	220	250+
Code	B4	D4	W4	F4	M4	N4

+ For 3TF3, 3TH3 only

■ Stock items

Please order in multiples of standard packing.

### Auxiliary contact blocks

For contactor	Description	Type	Unit MRP ₹	Std. pkg. (nos.)
3TF30 to 35 & 3TH30	1NO	■ 3TX4 010-2A	145.-	10
	1NC	■ 3TX4 001-2A	145.-	10
	1NO (Ext)	■ 3TX4 010-4A	230.-	10
	1NC (Ext)	■ 3TX4 001-4A	230.-	10
3TF46 to 3TF57, 3TK5	Second 1NO+1NC Left Second 1NO+1NC Right	■ 3TY7 561-1KA00 8K	665.-	1

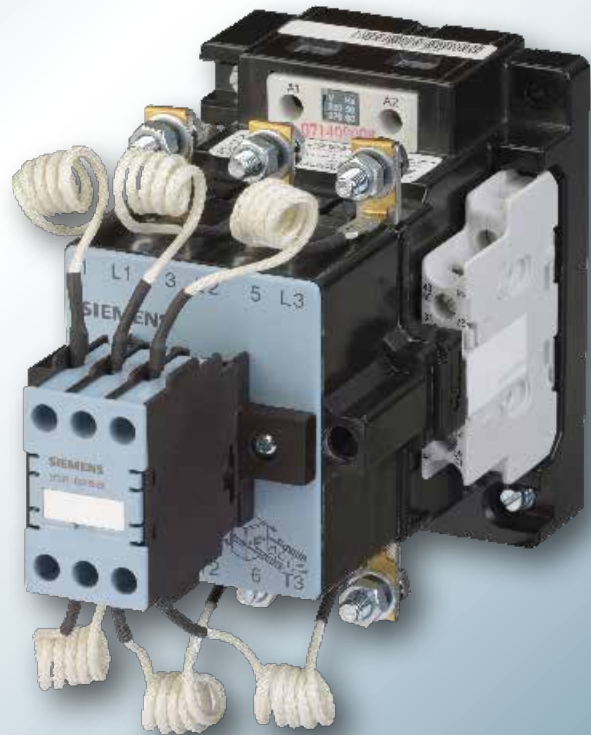
### Extra MRP\* per unit for non-std coils B0 / D0 / M0# / U0# (AC), D4/W4 (DC) and wide band

for 3TH, 3TF30 to 33	135.-	for 3TF34 to 49	205.-	for 3TF50 to 56	555.-
Wide band coil for 3TH, 3TF30 to 33	135.-	Wide band coil for 3TF34/35	205.-		

For any non-standard coil or contactor with non standard coil, minimum order quantity should be 100 nos. or minimum order value of ₹1,00,000/- per item.

For non-standard coil voltages not mentioned above, pl. check with Siemens.

# M0: 220V AC, U0: 240V AC



## 3TS Capacitor duty contactors

Smart. Easy. Reliable.

The 3TS capacitor duty contactor (with **patented** de-latching technology) provides a reliable and economical solution for capacitor switching applications.

### Features:

- De-latching operating principle
- SIGUT Termination technique
- Finger touch proof terminals
- Compact Dimensions
- DIN / Screw mounting

### Benefits:

- Reliable switching of capacitor banks
- Ease of wiring (can obviate use of lugs)
- Operator Safety
- Space saving
- Flexible mounting

Siemens switchgear. Tried, tested, trusted.

## AC1 duty contactors - 3TK

For resistive and off-load switching applications with AC coils, 2NO+2NC aux. contacts

Contactor size	Rated current Ie (A) AC1 at 415V	Type <sup>1)</sup>	Unit MRP ₹	Std. pkg. (nos.)
6	190	3TK50 02-0A..	14500.-	1
8	315	3TK52 02-0A..	26360.-	1
10	380	3TK54 02-0A..	34280.-	1
12	500	3TK56 02-0A..	49005.-	1

## 2 Pole AC contactors - 3TF

For single phase and 2 phase applications with AC coils

Contactor size	Rated current Ie (A)	Type <sup>1)</sup>	Unit MRP ₹	Std. pkg. (nos.)
3	45	3TF46 02-0A..ZB01	4805.-	1
3	63	3TF47 02-0A..ZB01	6960.-	1
3	70	3TF47 72-0A..ZB01	7245.-	1
6	110	3TF50 02-0A..ZB01	10805.-	1
6	140	3TF51 02-0A..ZB01	14290.-	1
8	170	3TF52 02-0A..ZB01	18985.-	1
8	205	3TF53 02-0A..ZB01	20530.-	1
10	250	3TF54 02-0A..ZB01	24230.-	1
10	300	3TF55 02-0A..ZB01	28750.-	1
12	400	3TF56 02-0A..ZB01	35890.-	1

<sup>1)</sup> AC coil voltage - Please enter coil codes from table below

Type	3TF/ 3TK		
Code	F0	P0	R0
Coil voltage (V) (50Hz)	110	230	415

## Hoisting duty contactors - 3TF

For high switching frequency / inching applications with AC coils, 2NO+2NC aux. contacts

Contactor size	Rated current Ie (A) AC2/AC3 at 415V	Type <sup>1)</sup>	Unit MRP ₹	Std. pkg. (nos.)
6	110	3TF50 00-0A..	17755.-	1
8	170	3TF52 00-0A..	31185.-	1
10	250	3TF54 00-0A..	39740.-	1
12	400	3TF56 00-0A..	61495.-	1

## 2 Pole DC contactors - 3TC

For DC loads with AC coil, 2NO+2NC aux. contacts

Contactor size	Rated current Ie (A) DC3/5	Type <sup>2)</sup>	Unit MRP ₹	Std. pkg. (nos.)
2	32	3TC44 17-0B..	13675.-	1
4	75	3TC48 17-0B..	68100.-	1
8	220	3TC52 17-0B..	114640.-	1
12	400	3TC56 17-0B..	195780.-	1

<sup>2)</sup> AC coil voltage - Please enter coil codes from table below

Code	F0	U0
Coil voltage (V) (50Hz)	110	240

## Capacitor duty contactors - 3TS

With patented de-latching technology For switching capacitor banks with AC coils

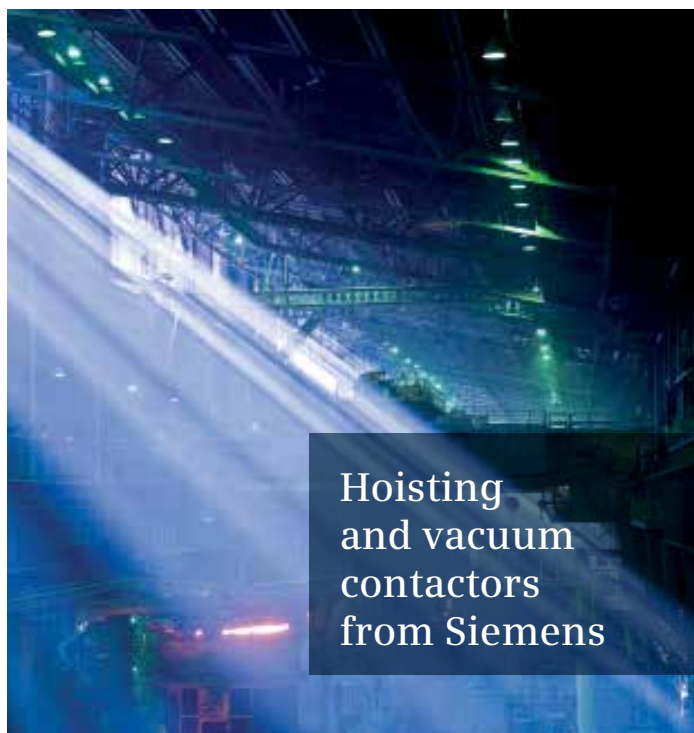
Capacitor kVA <sub>r</sub> 415V, 3ph, 50Hz	Built-in aux. contacts	Type <sup>5)</sup>	Unit MRP ₹	Std. pkg. (nos.)
7 kVA <sub>r</sub>	1 NO	3TS1110-0A..5-8K †	1850.-	1
12.5 kVA <sub>r</sub>	–	3TS1200-0A..5-8K †	2080.-	1
16 kVA <sub>r</sub>	–	3TS1300-0A..5-8K †	2715.-	1
20 kVA <sub>r</sub>	–	3TS1400-0A..5-8K †	3060.-	1
25 kVA <sub>r</sub>	–	3TS1500-0A..5-8K †	3580.-	1
<b>New</b> 50 kVA <sub>r</sub>	2 NO + 2 NC	3TS1722-0A..5-8K	11500.-	1

† Facility to add one contact block of 1NO / 1NC

<sup>5)</sup> AC 50Hz coil code - Please enter coil codes from table below

Code	For 3TS contactors		
	F0	P0	R0
Coil voltage (V)	110	230	415

\* For 75 kVA<sub>r</sub> capacitor duty contactor please contact nearest sales office



Hoisting and vacuum contactors from Siemens

with DC coil, 2NO + 2NC aux. contacts

Contactor size	Rated current Ie (A) DC3/5	Type <sup>3)</sup>	Unit MRP ₹	Std. pkg. (nos.)
2	32	3TC44 17-0A..	18880.-	1
4	75	3TC48 17-0A..	82025.-	1
8	220	3TC52 17-0A..	140930.-	1
12	400	3TC56 17-0A..	260160.-	1

<sup>3)</sup> DC coil voltage - Please enter coil codes from table below

Code	B4	F4	M4
Coil voltage (V)	24	110	220

## Solid state switching devices - 3RF

### Solid state contactless switching for application requiring frequent switching

- Compact 22.5mm design with built in LED & finger touch proof protection
- Blocking voltage 1200V
- Main voltage 48-460V AC
- Control voltage 4-30V DC
- Zero point switching

Rated current AC51 (max)	Type	Unit MRP ₹	Std. pkg. (kits)
20	3RF21 20-1AA45 <sup>§</sup>	1665.-	1
30	3RF21 30-1AA45 <sup>§</sup>	2590.-	1
50	3RF21 50-1AA45 <sup>§</sup>	4300.-	1
70	3RF21 70-1AA45 <sup>§</sup>	4990.-	1
90	3RF21 90-1AA45 <sup>§</sup>	6170.-	1

§ To be used along with suitable heatsink, other voltages upon enquiry

Contact your nearest Siemens partner to know more about

- 3RF20 solid state relays with 45mm design for resistive loads
- 3RF23 single phase solid state contactors with built in heatsink for resistive/inductive loads
- 3RF24 three phase solid state contactors with built-in heat sink for resistor loads upto 50A
- Add on function modules to achieve extended functionality

## Accessories for SICOP / SICONT<sup>Plus</sup>

### Interlocking kit for two 3TF contactors (inclusive of base plate and interlocking mechanism)

Contact type	Type	Unit MRP ₹	Std. pkg. (kits)
3TF30-35	■ 3TX4 091-1A <sup>#</sup>	460.-	10
3TF46/47/47-7	■ 3TX7 466-1YA0	1620.-	2
3TF48/49	■ 3TX7 486-1YA0	2625.-	2
3TF50/51	■ 3TX7 506-1YA0	2960.-	2
3TF52/53	■ 3TX7 526-1YA0	3390.-	2
3TF54/55	■ 3TX7 546-1YA0	4075.-	2
3TF56/57	■ 3TX7 566-1YA0	4350.-	2
3TF50/52	3TX7 526-1YA09	3390.-	2
3TF52/54	■ 3TX7 546-1YA09	4075.-	2

Note: Higher rating upon enquiry # W/o base plate (not required)

### Adaptor plates for replacing 3TA by SICOP contactors

Adaptor plates, to replace	Type	Unit MRP ₹	Std. pkg. (nos.)
3TA61-0A by 3TH30-0A	3TX64 06-0A	85.-	5
3TA67/21 by 3TH30, 3TF30/31 3TA21/11 by 3TF32/33	3TX21 43-1YA0	85.-	5
3TA22/13 by 3TF32-35	3TX22 42-1YA0	135.-	5
3TA24 by 3TF46/47/477	3TX24 46-1YA0	200.-	5
3TA24/16 by 3TF48/49	3TX16 48-1YA0	200.-	5
3TA16 by 3TF50/51	3TX16 50-1YA0	475.-	5
3TA28 by 3TF50/51	3TX28 50-1YA0	475.-	5
3TA28 by 3TF52/53	3TX28 52-1YA0	560.-	5

### Surge suppressor (varistor) for 3TF30-35, 3TH30

Coil voltage		Type	Unit MRP ₹	Std. pkg. (nos.)
AC	DC			
24 - 48 V	24 - 70 V	■ 3TX7 402-3GY1	415.-	10
48 - 127V	70 - 150V	■ 3TX7 402-3HY1	415.-	10
127 - 240V	150 - 250V	■ 3TX7 402-3JY1	415.-	10
240 - 400V	—	3TX7 402-3KY1	530.-	10
400 - 600V	—	3TX7 402-3LY1	530.-	10

### Surge suppressor (varistor) for 3TF46-56

Coil voltage	Type	Unit MRP ₹	Std. pkg. (nos.)
Less than 48V	24 - 70V	■ 3TX7 462-3GY1	565.-
48 - 127V	70 - 150V	■ 3TX7 462-3HY1	
127 - 240V	150 - 250V	■ 3TX7 462-3JY1	
240 - 400V	—	3TX7 462-3KY1	600.-
400 - 600V	—	3TX7 462-3LY1	600.-

### Surge suppressor (RC unit) for 3TF30-35, 3TH30

Coil voltage	Type	Unit MRP ₹	Std. pkg. (nos.)
24 - 48 V	24 - 70 V	3TX7 402-3RY2	655.-
48 - 127V	70 - 150V	3TX7 402-3SY2	
127 - 240V	150 - 250V	3TX7 402-3TY2	
240 - 400V	—	3TX7 402-3UY2	10
400 - 600V	—	3TX7 402-3VY2	10

## Connector

The 3TS90 connector is used to mount the motor protection circuit breaker 3VU on the contactor 3TF with screw terminals. It enables mechanical and electrical connection between contactor and motor starter protection circuit breaker.



### ■ Stock items

MRP - Maximum Retail Price

### Range:

MPCB		Contactor		MLFB of Connector	Unit MRP ₹	Std. pkg. (nos.)
MLFB	Current Rating	MLFB	AC3 Current Rating			
3VU13	0.16 to 20A	3TF30 / 31	9 / 12 A	3TS9001-8K	240.-	1
3VU13	6 to 25A	3TF32 / 33	16 / 22A	3TS9002-8K	280.-	1

### Benefits:

Direct mounting of 3VU MPCB on 3TF contactor eliminates the need of power wiring and ensures secure connection. In addition, the assembly time and size of the feeder is reduced which results in cost saving. The overall assembly also looks contemporary.

Siemens switchgear. Tried, tested, trusted.

## Spares for SICOP and SICONT<sup>Plus</sup> contactors

### SICOP main contact kits (set of 6 fixed & 3 moving contacts)

For Contactor (AC3 Rating)	Type	MRP per set ₹	Std. pkg. (nos.)
3TF32/42 (16A)	■ 3TY7 420-0A	635.-	1
3TF33/43 (22A)	■ 3TY7 430-0A	890.-	1
3TF34 (32A)	■ 3TY7 340-0C	1700.-	1
3TF35 (38A)	■ 3TY7 350-0C	2595.-	1
3TF44 (32A)	■ 3TY7 440-0A	1875.-	1
3TF45 (38A)	■ 3TY7 450-0A	2595.-	1
3TF46 (45A)	■ 3TY7 460-0YA	2775.-	1
3TF47 (63A)	■ 3TY7 470-0YA	4050.-	1
3TF477 (70A)	■ 3TY7 477-0YA	4695.-	1
3TF48 (75A)	■ 3TY7 480-0A	5400.-	1
3TF49 (85A)	■ 3TY7 490-0A	7245.-	1
3TF50 (110A)	■ 3TY7 500-0YA	7890.-	1
3TF51 (140A)	■ 3TY7 510-0YA	9930.-	1
3TF52 (170A)	■ 3TY7 520-0YA	12475.-	1
3TF53 (205A)	■ 3TY7 530-0YA	13320.-	1
3TF54 (250A)	■ 3TY7 540-0YA	16015.-	1
3TF55 (300A)	■ 3TY7 550-0YA	18830.-	1
3TF56 (400A)	■ 3TY7 560-0YA	24915.-	1
3TF57 (475A)	3TY7 570-0YA	33200.-	1
3TF68 (630A)	3TY7 680-0B <sup>§</sup>	165155.-	1
3TF69 (820A)	3TY7 690-0B <sup>§</sup>	265355.-	1

§ Set of 3x vacuum bottles.

### Auxiliary contact blocks

For contactor	Description	Type	Unit MRP ₹	Std. pkg. (nos.)
3TF46-57	1NO + 1NC (Extd) Right	3TY7 561-1E	855.-	1
3TF46 to 3TF57, 3TK5	Built-in, 1NO+1NC Left / Right	3TY7 561-1AA00-8K	665.-	1
	Add-on, Second 1NO+1NC Left / Right	3TY7 561-1KA00-8K	665.-	1
3TF46/47/47 7	Special block, DC coil circuit	3TY7 461-1F	875.-	1
3TF48-56	Special block, DC coil circuit	3TY7 481-1F	875.-	1
3TF57	Special block, DC coil circuit	3TY7 681-1G	995.-	1

### DC coils

For contactor	Type†	Unit MRP ₹		Std. pkg. (nos.)
		For 24/110/220/250V	For all other coil voltages	
3TH3, 3TF30-33/42/43	■ 3TY4 803-0B..	775.-	915.-	1
3TF34/35/44/45	3TY7 443-0B..	1165.-	1370.-	1
3TF46/47/477	3TY7 463-0D..	3575.-	3775.-	1
3TF48/49	3TY7 483-0D..	6125.-	6335.-	1
3TF50/51	3TY7 503-0D..	9570.-	10120.-	1
3TF52/53	3TY7 523-0D..	14870.-	15420.-	1

■ Stock items

### SICOP arc chambers

For Contactor	Type	Unit MRP ₹	Std. pkg. (nos.)
3TF34	3TY7 342-0C	455.-	1
3TF35	3TY7 352-0C	490.-	1
3TF46	3TY7 462-0YA	950.-	1
3TF47	3TY7 472-0YA	1165.-	1
3TF477	3TY7 477-0YD	1400.-	1
3TF48	3TY7 482-0A	1685.-	1
3TF49	3TY7 492-0A	1945.-	1
3TF50	3TY7 502-0YA	2315.-	1
3TF51	3TY7 512-0YA	2630.-	1
3TF52	3TY7 522-0YA	2890.-	1
3TF53	3TY7 532-0YA	2975.-	1
3TF54	3TY7 542-0YA	3210.-	1
3TF55	3TY7 552-0YA	3300.-	1
3TF56	3TY7 562-0YA	3725.-	1
3TF57	3TY7 572-0YA	3825.-	1

### AC coils (50 Hz)

For contactor	Type†	Unit MRP ₹		Std. pkg. (nos.)
		For 110/230/415V 50Hz	For all other coil voltages	
3TH3, 3TF30-33/42/43	■ 3TY7 403-0A..	565.-	645.-	1
3TF34/35/44/45	■ 3TY7 443-0A..	700.-	905.-	1
3TF46/47/477	■ 3TY7 463-0A..	1215.-	1420.-	1
3TF48/49	■ 3TY7 483-0A..	2225.-	2430.-	1
3TF50/51, 3TK50	■ 3TY7 503-0A..	2260.-	2815.-	1
3TF52/53, 3TK52	■ 3TY7 523-0A..	2860.-	3415.-	1
3TF54/55, 3TK54	■ 3TY7 543-0A..	3465.-	4020.-	1
3TF56, 3TK56	■ 3TY7 563-0A..	5040.-	6140.-	1
3TF57	3TY7 573-0C..	15125.-	NA	1
3TF68	3TY7 683-0C..	37290.-	NA	1
3TF69	3TY7 693-0C..	70860.-	NA	1

† Pl. add coil voltage code from table on page 38.

110V, 230V, 415V are stock items for 3TH, 3TF30-56

24V is stock item only for 3TH30/3TF30/31/32/33

For contactor	Type†	Unit MRP ₹		Std. pkg. (nos.)
		For 24/110/220/250V	For all other coil voltages	
3TF54/55	3TY7 543-0D..	23630.-	24180.-	1
3TF56	3TY7 563-0D..	26575.-	27125.-	1
3TF57	3TY7 573-0D..	30400.-	NA	1
3TF68	3TY7 683-0D..	57750.-	NA	1
3TF69	3TY7 693-0D..	94325.-	NA	1

† Pl. add coil voltage code from table on page 38.

24V, 110V, 220V are stock items only for 3TH3/3TF30/31/32/33



## Spares for AC1 duty contactors

### Contact kits

Spare contact kit for	Type	Unit MRP ₹	Std. pkg. (nos.)
3TK50 02-0A..	3TY7 500-0KA	7235.-	1
3TK52 02-0A..	3TY7 520-0KA	11670.-	1
3TK54 02-0A..	3TY7 540-0KA	14735.-	1
3TK56 02-0A..	3TY7 560-0KA	22675.-	1

## Spares for hoisting duty contactors

### Spare coils

Spare coils for	Type <sup>1)</sup>	Unit MRP ₹	Std. pkg. (nos.)
3TF50 00 0A..	3TY7 503-0A ..0-0H	3210.-	1
3TF52 00 0A..	3TY7 523-0A ..0-0H	3830.-	1
3TF54 00 0A..	3TY7 543-0A ..0-0H	4655.-	1
3TF56 00 0A..	3TY7 563-0A ..0-0H	6160.-	1

<sup>1)</sup> Pls. add coil voltage code from table on page 40.

### Spare contact kits

	Type	Unit MRP ₹	Std. pkg. (nos.)
3TF50 00 0A..	3TY7 500-0ZA	10435.-	1
3TF52 00 0A..	3TY7 520-0ZA	13355.-	1
3TF54 00 0A..	3TY7 540-0ZA	18520.-	1
3TF56 00 0A..	3TY7 560-0ZA	31355.-	1

## Spares for 3TC contactors

Description	Version	Type	Unit MRP ₹	Std. pkg. (nos.)
Set of main contacts	for 3TC44	3TY2 440-0A	5305.-	1
	for 3TC48	3TY2 480-0A	13000.-	1
	for 3TC52	3TY2 520-0A	36880.-	1
	for 3TC56	3TY2 560-0A	73130.-	1
AC coils <sup>1)</sup> (50 Hz)	for 3TC44	3TY7 403-0A..	565.-	1
	for 3TC48	3TY6 483-0A..	7075.-	1
	for 3TC52	3TY6 523-0A..	9535.-	1
	for 3TC56	3TY6 563-0A..	14370.-	1
DC coils <sup>2)</sup>	for 3TC44	3TY6 443-0B..	9765.-	1
	for 3TC48	3TY6 483-0B..	16655.-	1
	for 3TC52	3TY6 523-0B..	41185.-	1
	for 3TC56	3TY6 563-0B..	57195.-	1
Arc chambers	for 3TC44	3TY2 442-0A	5200.-	1
	for 3TC48	3TY2 482-0A	9445.-	1
	for 3TC52	3TY2 522-0A	14695.-	1
	for 3TC56	3TY2 562-0A	29705.-	1
Auxiliary contacts 1st 1NO + 1NC Left/Right 2nd 1NO + 1NC Left 2nd 1NO + 1NC Right	for 3TC44/48	3TY6 501-1AA00	2410.-	1
	for 3TC48	3TY6 501-1K	2410.-	1
	for 3TC48	3TY6 501-1L	2410.-	1

<sup>1)</sup> AC coil voltage - Please enter coil codes from table below

Code	B0	F0	U0	R0
Coil voltage (50 Hz)	24	110	240	415 <sup>5</sup>

<sup>5</sup> Only for 3TC 44

<sup>2)</sup> DC coil voltage - Please enter coil codes from table below

Code	B4	F4	M4
Coil voltage	24	110	220

MRP - Maximum Retail Price

## Spares for capacitor duty contactors - 3TS

### Spare coils

Contactor kVAr	Description	Type*	Unit MRP ₹	Std. pkg. (nos.)
7 kVAr	AC 50Hz coil	3TY74030A..	565.-	1
12.5 kVAr				
16 kVAr		3TY74430A..	700.-	1
20 kVAr				
25 kVAr				
50 kVAr	3TY74630A..	1215.-	1	

\* For coil, refer below table

Code	For 3TS contactors		
	F0	P0	R0
Coil voltage (V)	110	230	415

### Pre-charge resistor + Contact block kit

Contactor kVAr	Description	Type	Unit MRP ₹	Std. pkg. (nos.)
12.5 kVAr	Pre-charge resistor + early making contact block kit + main contacts kit	3TS9762-0SX15-8K	1390.-	1
16 kVAr		3TS9763-0SX15-8K	2070.-	1
20 kVAr		3TS9764-0SX15-8K	2335.-	1
25 kVAr		3TS9765-0SX15-8K	2745.-	1
50 kVAr		3TS9767-0SX15-8K	7060.-	1

Note: Pre-charge resistor + early making contact block kit + main contacts should be replaced simultaneously

## Spares for 3TA contactors

### Main contact kits for 3TA contactors

1 spare set (for one contactor) comprising	For Contactor		Type	MRP per set ₹	Std. pkg (set)
	Type	Rating (AC3)			
6 fixed contacts 3 moving contacts 6 terminal screws 6 terminal washers	3TA67	10 A	3TY1 670-0A	1070.-	1
	3TA21	16 A	3TY1 210-0A	1195.-	1
	3TA11	22 A	3TY1 110-0A	1610.-	1
6 fixed contacts 3 moving contacts 3 flat springs 6 screws 6 washers	3TA22	30 A	3TY1 220-0A	2335.-	1
	3TA13	38 A	3TY1 130-0A	3110.-	1
	3TA24	70 A	3TY1 240-0A	6210.-	1
	3TA16	105 A	3TY1 160-0A	10295.-	1

### Coils for 3TA contactors

Coil description	For contactor	Type†	Unit MRP ₹	Std. pkg. (nos.)
AC coils, 50Hz	3TA67/76/21/11	3TY1 213-0.	630.-	1
	3TA22/13	3TY1 223-0.	940.-	1
	3TA24/16	3TY1 243-0.	1915.-	1
	3TA28/28-Z	3TY1 283-0.	3620.-	1

† AC coil voltage - Please enter coil codes from table below

Code	B	F	M	U	W
Coil voltage, V (50Hz)	24	110	220	240	415

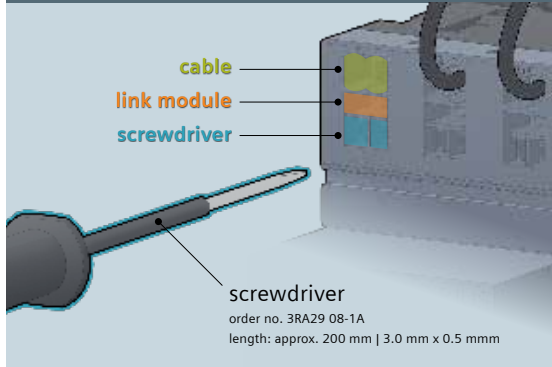
■ Stock items

Please order in multiples of standard packing.

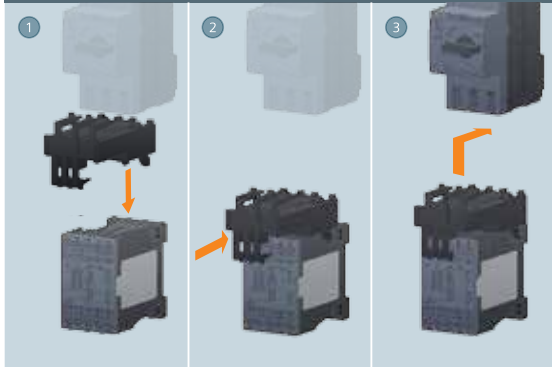


# SIEMENS

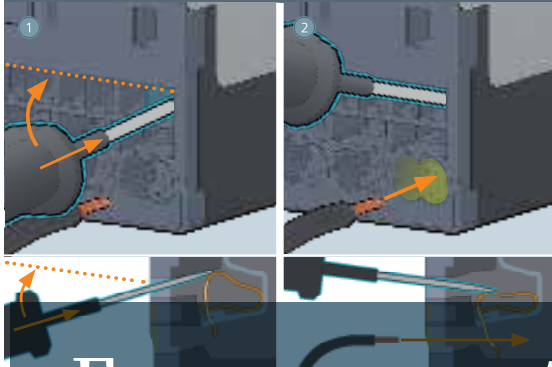
## Spring-type terminals



## Connecting



## Wiring



# Easy connecting & wiring

Fast assembly thanks to spring-type terminals



# Thermal Overload Relays - 3RU

## Direct Mounting - Class 10 - Screw Terminals

Size of relay / contactor	Rating for induction motor Rated value kW	Set current value of the inverse- time delayed overload release A	Type#	Unit MRP ₹	Std. pkg. (nos.)		
S00	0.04	0.11 ... 0.16	3RU21 16-0AB0	1460.-	1		
	0.06	0.14 ... 0.2	3RU21 16-0BB0		1		
	0.06	0.18 ... 0.25	3RU21 16-0CB0		1		
	0.09	0.22 ... 0.32	3RU21 16-0DB0		1		
	0.09	0.28 ... 0.4	3RU21 16-0EB0		1		
	0.12	0.35 ... 0.5	3RU21 16-0FB0		1		
	0.18	0.45 ... 0.63	3RU21 16-0GB0		1		
	0.18	0.55 ... 0.8	3RU21 16-0HB0		1		
	0.25	0.7 ... 1	■ 3RU21 16-0JB0		1		
	0.37	0.9 ... 1.25	3RU21 16-0KB0		1		
	0.55	1.1 ... 1.6	■ 3RU21 16-1AB0		1		
	0.75	1.4 ... 2	■ 3RU21 16-1BB0		1		
	0.75	1.8 ... 2.5	3RU21 16-1CB0		1		
	1.1	2.2 ... 3.2	■ 3RU21 16-1DB0		1		
	1.5	2.8 ... 4	3RU21 16-1EB0		1		
	1.5	3.5 ... 5	3RU21 16-1FB0		1		
	2.2	4.5 ... 6.3	3RU21 16-1GB0		1		
	3	5.5 ... 8	3RU21 16-1HB0		1		
	4	7 ... 10	3RU21 16-1JB0		1		
5.5	9 ... 12.5	3RU21 16-1KB0	1				
7.5	11 ... 16	3RU21 16-4AB0	1				
S0	0.75	1.8 ... 2.5	■ 3RU21 26-1CB0	1650.-	1		
	1.1	2.2 ... 3.2	■ 3RU21 26-1DB0		1		
	1.5	2.8 ... 4	■ 3RU21 26-1EB0		1		
	1.5	3.5 ... 5	3RU21 26-1FB0		1		
	2.2	4.5 ... 6.3	■ 3RU21 26-1GB0		1		
	3	5.5 ... 8	■ 3RU21 26-1HB0		1		
	4	7 ... 10	■ 3RU21 26-1JB0		1665.-	1	
	5.5	9 ... 12.5	■ 3RU21 26-1KB0		1665.-	1	
	7.5	11 ... 16	■ 3RU21 26-4AB0		1750.-	1	
	7.5	14 ... 20	■ 3RU21 26-4BB0			1	
	11	17 ... 22	■ 3RU21 26-4CB0			1	
	11	20 ... 25	3RU21 26-4DB0		1		
	15	23 ... 28	3RU21 26-4NB0		1		
	15	27 ... 32	3RU21 26-4EB0		3025.-	1	
	18.5	30 ... 36	3RU21 26-4PB0		1		
	18.5	34 ... 40	3RU21 26-4FB0		1		
	S2	3	5.5 ... 8		3RU11 36-1HB0	3100.-	1
		4	7 ... 10		3RU11 36-1JB0		1
		5.5	9 ... 12.5		■ 3RU11 36-1KB0		1
7.5		11 ... 16	■ 3RU11 36-4AB0	1			
7.5		14 ... 20	■ 3RU11 36-4BB0	1			
11		18 ... 25	■ 3RU11 36-4DB0	1			
15		22 ... 32	■ 3RU11 36-4EB0	1			
18.5		28 ... 40	■ 3RU11 36-4FB0	1			
22		36 ... 45	■ 3RU11 36-4GB0	3715.-	1		
22		40 ... 50	■ 3RU11 36-4HB0	1			
S3		11	18 ... 25	3RU11 46-4DB0	4910.-		1
	15	22 ... 32	3RU11 46-4EB0	1			
	18.5	28 ... 40	■ 3RU11 46-4FB0	1			
	22	36 ... 50	■ 3RU11 46-4HB0	1			
	30	45 ... 63	■ 3RU11 46-4JB0	5220.-		1	
	37	57 ... 75	■ 3RU11 46-4KB0	1			
	45	70 ... 90	■ 3RU11 46-4LB0	5435.-		1	
45	80 ... 100	3RU11 46-4MB0	7115.-	1			

# 3RU2 (S00, S0) for ordering relay with spring type terminals please replace 10th digit from 'B' to 'C' (not applicable for 3RU1 S2/S3)

## Accessory for independent mounting

For size of relay	Relay type	Type	Unit MRP ₹	Std. pkg. (nos.)
S00	3RU2	■ 3RU2916-3AA01*	265.-	1
S0	3RU2	■ 3RU2926-3AA01*	310.-	1
S2	3RU1	■ 3RU19 36-3AA01	420.-	1
S3	3RU1	■ 3RU19 46-3AA01	540.-	1

\* For ordering independent mounting kit for spring type terminals please replace 10th digit from 'A' to 'C'

## Thermal Overload Relays - 3RU New

### Separate Mounting - Class 10

Size of relay / contactor	Rating for induction motor Rated value kW	Set current value of the inverse-time delayed overload release A	Type*	Unit MRP ₹	Std. pkg. (nos.)
S6	45	70 - 100	3RU21 56-5BB10-8K	6450.-	1
	55	90 - 125	3RU21 56-5CB10-8K		1
	75	110 - 160	3RU21 56-5DB10-8K		1
	110	140 - 200	3RU21 56-5EB10-8K		1
	45	70 - 100	3RU21 56-5BW10-8K <sup>§</sup>	6240.-	1
	55	90 - 125	3RU21 56-5CW10-8K <sup>§</sup>		1
	75	110 - 160	3RU21 56-5DW10-8K <sup>§</sup>		1
110	140 - 200	3RU21 56-5EW10-8K <sup>§</sup>	1		
S10	110	140 - 200	3RU21 66-5EB10-8K	9620.-	1
	132	180 - 250	3RU21 66-5FB10-8K		1
	160	220 - 320	3RU21 66-5GB10-8K		1
S12	200	280 - 400	3RU21 76-5HB10-8K	12480.-	1
	250	350 - 500	3RU21 76-5JB10-8K		1



### Separate Mounting - Class 30

Size of relay / contactor	Rating for induction motor Rated value kW	Set current value of the inverse-time delayed overload release A	Type*	Unit MRP ₹	Std. pkg. (nos.)
S6	37	55 - 80	3RU23 56-5AB10-8K	12480.-	1
	45	70 - 100	3RU23 56-5BB10-8K		1
	55	90 - 125	3RU23 56-5CB10-8K		1
	37	55 - 80	3RU23 56-5AW10-8K <sup>§</sup>		1
	45	70 - 100	3RU23 56-5BW10-8K <sup>§</sup>		1
	55	90 - 125	3RU23 56-5CW10-8K <sup>§</sup>		1
S10	75	110 - 160	3RU23 66-5DB10-8K		1
	110	140 - 200	3RU23 66-5EB10-8K		1
S12	132	180 - 250	3RU23 76-5FB10-8K		1
	160	220 - 320	3RU23 76-5GB10-8K		1

\* For heavy duty applications (starting time > 10s), it is recommended to use 3RU class 30 relays to avoid nuisance tripping and reliable protection.

§ Range available with straight through transformer



## Microprocessor based overload relay - 3RB

### 3RB (Class 10)

With overload, phase failure and phase unbalance protections

Size	Current setting range A	Type*	Unit MRP ₹	Std. pkg. (nos.)
S00	0.1 ... 0.4	3RB30 16-1RB0	3390.-	1
	0.32 ... 1.25	3RB30 16-1NB0		1
	1 ... 4	3RB30 16-1PB0		1
	3 ... 12	3RB30 16-1SB0		1
	4 ... 16	3RB30 16-1TB0		1
S0	0.1 ... 0.4	3RB30 26-1RB0	3880.-	1
	0.32 ... 1.25	3RB30 26-1NB0		1
	1 ... 4	3RB30 26-1PB0		1
	3 ... 12	3RB30 26-1SB0		1
	6 ... 25	3RB30 26-1QB0		1
	10 ... 40	3RB30 26-1VB0		1
S2	6 to 25A	3RB20 36-1QW1 <sup>#</sup>	4240.-	1
S2	13 to 50A	3RB20 36-1UW1 <sup>#</sup>	5945.-	
S3	25 to 100A	3RB20 46-1EW1 <sup>#</sup>	9140.-	
S6	50 to 200A	3RB20 56-1FW2 <sup>#</sup>	11695.-	
S6	50 to 200A	3RB20 56-1FC2		
S10/12	160 to 630A	3RB20 66-1MC2	22715.-	

### 3RB (Class 5 to 30 – Settable)

With Overload, phase failure, phase unbalance, and earth fault protections

Size	Current setting range A	Type*	Unit MRP ₹	Std. pkg. (nos.)
S00	0.1 ... 0.4	3RB31 13-4RB0	6965.-	1
	0.32 ... 1.25	3RB31 13-4NB0		1
	1 ... 4	3RB31 13-4PB0		1
	3 ... 12	3RB31 13-4SB0		1
	4 ... 16	3RB31 13-4TB0		1
	S0	0.1 ... 0.4		3RB31 23-4RB0
0.32 ... 1.25		3RB31 23-4NB0	1	
1 ... 4		3RB31 23-4PB0	1	
3 ... 12		3RB31 23-4SB0	1	
6 ... 25		3RB31 23-4QB0	1	
10 ... 40		3RB31 23-4VB0	1	
S2		6 to 25A	3RB21 33-4QW1 <sup>#</sup>	8360.-
S2	13 to 50A	3RB21 33-4UW1 <sup>#</sup>	10100.-	
S3	25 to 100A	3RB21 43-4EW1 <sup>#</sup>	12780.-	
S6	50 to 200A	3RB21 53-4FC2	17505.-	
S6	50 to 200A	3RB21 53-4FW2 <sup>#</sup>		
S10/12	160 to 630A	3RB21 63-4MC2	29415.-	

### Accessory for independent mounting

For relay size	Relay type	Type	Unit MRP ₹	Std. pkg. (nos.)
S00	3RB30/31	3RU29 16-3AA01 <sup>@</sup>	265.-	1
S0	3RB30/31	3RU29 26-3AA01 <sup>@</sup>	310.-	1

# Straight through transformer type

\* 3RB30/31, for ordering relay with spring type terminals please replace 10<sup>th</sup> digit from 'B' to 'E' (not applicable for 3RB20/21)

@ 3RU29, accessory for separate mounting: For spring type terminals please replace 10<sup>th</sup> digit from 'A' to 'C'

## Microprocessor based overload relay - 3RB22 / 3RB23

<p>0.3 – 3 A 2.4 – 25 A</p>	<p>10 – 100 A</p>	<p>20 – 200 A</p>	<p>63 – 630 A</p>	<p>+</p> <p>+</p>	<ul style="list-style-type: none"> <li>• Overload Protection</li> <li>• Trip Class 5 to 30 settable</li> <li>• Thermister motor protection</li> <li>• Phase failure protection</li> <li>• Phase unbalance protection</li> <li>• Large setting range (1:10)</li> <li>• Overload warning</li> <li>• LED indication</li> </ul>	<ul style="list-style-type: none"> <li>- Analog Output (4-20mA)</li> <li>- Internal earth fault protection</li> <li>- Ground fault signaling</li> <li>- Overload warning</li> </ul>
<p>Current Measuring Module</p>	<p>Connecting Cable</p> <p>- 0.1 mtr. - 0.5 mtr.</p>			<p>Evaluation Module</p>	<p>Functional Module (Optional)</p>	

### Evaluation modules

(Suitable with all current measuring modules)

Description	Type	Unit MRP ₹	Std. pkg. (nos.)
3RB22 with monostable output	3RB22 83-4AA1	13745.-	1
3RB23 with bistable output	3RB23 83-4AA1	19795.-	1

### Connecting cable

(For connection between evaluation module and current measuring module)

Description	Type	Unit MRP ₹	Std. pkg. (nos.)
Length 0.1 m (S00...S3)	3RB29 87-2B	730.-	1
Length 0.5 m (S00...S12)	3RB29 87-2D	1015.-	1

### Current measuring modules

Size	Current range	Type	Unit MRP ₹	Std. pkg. (nos.)
S00/S0	0.3 to 3A	3RB29 06-2BG1	8115.-	1
	2.4 to 25A	3RB29 06-2DG1	9080.-	1
S2/S3	10 to 100A	3RB29 06-2JG1	10015.-	1
S6	20 to 200A	3RB29 56-2TG2	22265.-	1
S10/12	63 to 630A	3RB29 66-2WH2	25160.-	1

### Function modules (optional)

Description	Type	Unit MRP ₹	Std. pkg. (nos.)
Overload warning + Analog output	3RB29 852AA0	5065.-	1
Internal earth fault protection + Overload warning + Analog output	3RB29 85-2AA1	8115.-	1
Internal earth fault (protection + signalling) + Analog output	3RB29 85-2AB1		
Internal earth fault protection + Overload warning	3RB29 85-2CA1	1550.-	1
Internal earth fault (protection + signalling)	3RB29 85-2CB1		

## Accessories for 3RB20 and 3RB21

Description	For size	Type	Unit MRP ₹	Std. pkg. (nos.)
Resetting plunger with funnel	S0 - S12	3RU19 00-1A	555.-	1
Reset cord with holder - 400mm 600mm	S0 - S12	3RU19 00-1B 3RU19 00-1C	1585.-	1

Contact nearest Siemens partner for more details

## Accessories for 3RU2 Thermal overload relays and 3RB3 solid state overload relays

Accessory Type	Version	Size	3RU2 Thermal overload relay	3RB30/31 solid state overload relay	Type	Unit MRP ₹	Std. pkg. (nos.)
Mechanical Reset	Resetting plungers, holders & formers	S00, S0, S6-S12	√	X	3RU29 00-1A	555.-	1
	Push button with extended stroke		√	√	3SB30 00-0EA11	1655.-	1
	Extension plungers		√	√	3SX1 335	315.-	1
	Resetting plungers, holders & formers		X	√	3RB39 80-0A	280.-	1
Cable releases with holder for RESET	Length 400mm	S00, S0, S6-S12	√	X	3RU29 00-1B	1585.-	1
	Length 600mm		√	X	3RU29 00-1C		1
	Length 400mm		X	√	3RB39 80-0B	2770.-	1
	Length 600mm		X	√	3RB39 80-0C		1
Module for remote reset, electrical	24 ... 30 V AC/DC	S00, S0, S6-S12	√	X	3RU19 00-2AB71	1980.-	1
	110 ... 127 V AC/DC		√	X	3RU19 00-2AF71		
	220 ... 250 V AC/DC		√	X	3RU19 00-2AM71		
Sealable covers for covering the setting knob	For 3RB30/3RB31	S00, S0, S6-S12	X	√	3RB39 84-0	1320.-	1
Covers for busbar connections	Length 100mm	S6	√	-	3RT19 56-4EA1	1115.-	1
	Length 120mm	S10, S12	√	-	3RT19 66-4EA1	1430.-	1



## Accessories for 3RU1 Thermal overload relays

Accessory Type	Version	Size for 3RU	Type	Unit MRP ₹	Std. pkg. (nos.)
Mechanical Reset	Resetting plungers, holders & formers	S00-S3	3RU19 00-1A	555.-	1
	Pushbuttons with extended stroke		3SB30 00-0EA11	1655.-	1
	Extension plungers		3SX1 335	315.-	1
Cable releases with holder for RESET	Length 400mm	S00-S3	3RU19 00-1B	1585.-	1
	Length 600mm		3RU19 00-1C		
Module for remote RESET, electrical	24-30V AC/DC	S00-S3	3RU19 00-2AB71	1980.-	1
	110-127V AC/DC		3RU19 00-2AF71		
	220-250V AC/DC		3RU19 00-2AM71		
Terminal covers	For cable lugs & busbar connection				
	Length 55mm	S3	3RT19 46-4EA1	555.-	1
	For box terminals				
	Length 20.6mm	S2	3RT19 36-4EA2	410.-	1
	Length 20.8mm	S3	3RT19 46-4EA2	410.-	1



## Thermal overload relays - 3UA / 3UC

Bimetal relay	Current type of mounting	Current setting range A	Type	Unit MRP ₹	Std. pkg. (nos.)			
3UA50	Contactor® mounting (3TF30/31)	0.1 – 0.16	3UA50 00-0A	1460.-	1			
		0.16 – 0.25	3UA50 00-0C		1			
		0.25 – 0.4	■ 3UA50 00-0E		1			
		0.4 – 0.63	■ 3UA50 00-0G		1			
		0.63 – 1	■ 3UA50 00-0J		1			
		0.8 – 1.25	■ 3UA50 00-0K		1			
		1 – 1.6	■ 3UA50 00-1A		1			
		1.25 – 2	■ 3UA50 00-1B		1			
		1.6 – 2.5	■ 3UA50 00-1C		1			
		2 – 3.2	■ 3UA50 00-1D		1			
		2.5 – 4	■ 3UA50 00-1E		1			
		3.2 – 5	■ 3UA50 00-1F		1			
		4 – 6.3	■ 3UA50 00-1G		1			
		5 – 8	■ 3UA50 00-1H		1			
		6.3 – 10	■ 3UA50 00-1J		1480.-	1		
		8 – 12.5	■ 3UA50 00-1K			1		
		10 – 14.5	■ 3UA50 00-2S			1		
		3UA52	Contactor® mounting (3TF32/33)		1 – 1.6	3UA52 00-1A	1695.-	1
					1.25 – 2	3UA52 00-1B		1
1.6 – 2.5	3UA52 00-1C			1				
2 – 3.2	3UA52 00-1D			1				
2.5 – 4	3UA52 00-1E			1				
3.2 – 5	3UA52 00-1F			1				
4 – 6.3	■ 3UA52 00-1G			1480.-	1			
5 – 8	■ 3UA52 00-1H				1			
6.3 – 10	■ 3UA52 00-1J				1			
8 – 12.5	■ 3UA52 00-1K				1			
10 – 16	■ 3UA52 00-2A				1			
12.5 – 20	■ 3UA52 00-2B				1			
16 – 25	■ 3UA52 00-2C	1						
3UA55	Contactor® mounting (3TF34/35, 44/45)	10 – 16	■ 3UA55 00-2A	2600.-	1			
		12.5 – 20	■ 3UA55 00-2B		1			
		16 – 25	■ 3UA55 00-2C		1			
		20 – 32	■ 3UA55 00-2D		1			
		25 – 36	■ 3UA55 00-2Q	2670.-	1			
		32 – 40	■ 3UA55 00-2R		1			
		36 – 45	■ 3UA55 00-8M		1			
3UA58-Z1	Contactor® mounting (3TF46, 3TF47, 3TF48, 3TF49)	16 – 25	3UA58 00-2CZ1	4585.-	1			
		20 – 32	3UA58 00-2DZ1		1			
		25 – 40	3UA58 00-2EZ1		1			
		32 – 50	■ 3UA58 00-2FZ1	3915.-	1			
		40 – 57	■ 3UA58 00-2TZ1		1			
		50 – 63	■ 3UA58 00-2PZ1		1			
		57 – 70	■ 3UA58 00-2VZ1		1			
63 – 80	■ 3UA58 00-2UZ1	4585.-	1					
70 – 95	■ 3UA58 00-8YZ1		1					
3UA58-Z2	Contactor® mounting (3TF47 7)	16 – 25	3UA58 00-2CZ2	4585.-	1			
		20 – 32	3UA58 00-2DZ2		1			
		25 – 40	3UA58 00-2EZ2		1			
		32 – 50	■ 3UA58 00-2FZ2	3915.-	1			
		40 – 57	■ 3UA58 00-2TZ2		1			
		50 – 63	■ 3UA58 00-2PZ2		1			
57 – 70	■ 3UA58 00-2VZ2	4585.-	1					
63 – 80	■ 3UA58 00-2UZ2		1					
3UA58 30	Contactor® mounting (3TF50)	70 – 95	■ 3UA58 30-5B	5080.-	1			
		85 – 105	■ 3UA58 30-5C		1			
		95 – 120	■ 3UA58 30-5D		1			
3UA62	Independent mounting	85 – 135	■ 3UA62 30-5A	7005.-	1			
		115 – 180	■ 3UA62 30-5B		1			
		160 – 250	■ 3UA62 30-5C	10390.-	1			
		200 – 320	■ 3UA62 30-5D		1			
250 – 400	■ 3UA62 30-5E	1						
3UA68	Independent mounting	320 – 500	3UA68 30-5F	13435.-	1			
		400 – 630	3UA68 30-5G		1			

© Can be converted to independent mounting using accessory.

### ■ Stock items

Please order in multiples of standard packing.

MRP - Maximum Retail Price

### Relays for heavy starting applications, independent mounting

Current setting range A	Type	Unit MRP ₹	Current setting range A	Type	Unit MRP ₹	Std. pkg. (nos.)
2.5 – 4	3UC50 30-5E	13125.-	40 – 63	3UC58 30-5G	13125.-	1
4 – 6.3	3UC50 30-5G		63 – 100	3UC62 30-5J		1
6.3 – 10	3UC50 30-5J		100 – 160	3UC62 30-5A		1
8 – 12.5	3UC50 30-5K		125 – 200	3UC66 30-5B		1
10 – 16	3UC58 30-5A		160 – 250	3UC66 30-5C		1
16 – 25	3UC58 30-5C		250 – 400	3UC66 30-5E		1
25 – 40	3UC58 30-5E					

Note: Relays always supplied in manual execution, can be converted at site to auto execution.

### Accessories for 3UA birelays

Description	For relay type	Type	Unit MRP ₹	Std. pkg. (nos.)
Accessory for independent mounting	3UA50 3UA52 3UA55 3UA58 3UA58 30	■ 3UX14 18	230.-	1
		■ 3UX14 20	275.-	1
		■ 3UX14 25	320.-	1
		■ 3UX14 21	380.-	1
		■ 3UX14 21-0XA	475.-	1
Resetting plunger funnel	3UA5/6, 3UC5/6	3UX10 11 3UX10 13	150.-	10 10
Reset cord + holder: 400 mm length 600 mm length	3UA5/6, 3UC5/6	3UX10 15	205.-	5
		3UX10 16	205.-	5
Protection cover	3UA58/3UA58 30 Other 3UA5/6	3UX11 10 1YA 3UX11 11 1YA	155.-	10 10
Set of 3 terminals to convert from 3UA5800-2. or 3UA5800-2.Z2 to 3UA5800-2.Z1 3UA5800-2.Z1 or 3UA5800-2.Z2 to 3UA5800-2. 3UA5800-2. or 3UA5800-2.Z1 to 3UA5800-2.Z2		3UX58 11 3UX58 12 3UX58 13	125.-	10 10 10



Tried & tested  
relays for  
overload  
conditions



# Motor Protection Circuit Breakers - 3RV



Class 10, without auxiliary switches  
Screw Terminals

MPCB Specifications			MPCB with Standard release <sup>1)</sup>		MPCB with "Mag only" Release <sup>2)</sup>		MPCB with "relay function" <sup>3)</sup>	
MPCB Size	MPCB rated current A	MPCB overload range A	Type*	Unit MRP ₹	Type*	Unit MRP ₹	Type*	Unit MRP ₹
S00	0.16	0.11 ... 0.16	3RV2011-0AA10	3395.-	3RV23 11-0AC10	3265.-	3RV21 11-0AA10	4295.-
	0.2	0.14 ... 0.2	3RV2011-0BA10		3RV23 11-0BC10		3RV21 11-0BA10	
	0.25	0.18 ... 0.25	3RV2011-0CA10		3RV23 11-0CC10		3RV21 11-0CA10	
	0.32	0.22 ... 0.32	3RV2011-0DA10		3RV23 11-0DC10		3RV21 11-0DA10	
	0.4	0.28 ... 0.4	■ 3RV2011-0EA10	3RV23 11-0EC10	3RV21 11-0EA10			
	0.5	0.35 ... 0.5	3RV2011-0FA10	3RV23 11-0FC10	3RV21 11-0FA10			
	0.63	0.45 ... 0.63	■ 3RV2011-0GA10	3RV23 11-0GC10	3RV21 11-0GA10			
	0.8	0.55 ... 0.8	3RV2011-0HA10	3RV23 11-0HC10	3RV21 11-0HA10			
	1	0.7 ... 1	■ 3RV2011-0JA10	3RV23 11-0JC10	3RV21 11-0JA10			
	1.25	0.9 ... 1.25	■ 3RV2011-0KA10	3RV23 11-0KC10	3RV21 11-0KA10			
	1.6	1.1 ... 1.6	■ 3RV2011-1AA10	3RV23 11-1AC10	3RV21 11-1AA10			
	2	1.4 ... 2	■ 3RV2011-1BA10	3RV23 11-1BC10	3RV21 11-1BA10			
	2.5	1.8 ... 2.5	■ 3RV2011-1CA10		3RV21 11-1CA10			
	3.2	2.2 ... 3.2	■ 3RV2011-1DA10	3RV23 11-1DC10	3RV21 11-1DA10			
	4	2.8 ... 4	■ 3RV2011-1EA10	3RV23 11-1EC10	3RV21 11-1EA10			
	5	3.5 ... 5	■ 3RV2011-1FA10	3RV23 11-1FC10	3RV21 11-1FA10			
6.3	4.5 ... 6.3	■ 3RV2011-1GA10	3RV23 11-1GC10	3RV21 11-1GA10				
8	5.5 ... 8	■ 3RV2011-1HA10	3RV23 11-1HC10	3RV21 11-1HA10				
10	7 ... 10	■ 3RV2011-1JA10	3RV23 11-1JC10	3RV21 11-1JA10				
12.5	9 ... 12	■ 3RV2011-1KA10	3RV23 11-1KC10	3RV21 11-1KA10				
16	11 ... 16	■ 3RV2011-4AA10	5435.-	3RV23 11-4AC10	5045.-	3RV21 11-4AA10	6625.-	
S0	16	11 ... 16	■ 3RV2021-4AA10	5530.-	3RV23 21-4AC10	5140.-	3RV21 21-4AA10	6745.-
	20	14 ... 20	■ 3RV2021-4BA10	6065.-	3RV23 21-4BC10	5910.-	3RV21 21-4BA10	7530.-
	22	17 ... 22	■ 3RV2021-4CA10		3RV23 21-4CC10		3RV21 21-4CA10	
	25	20 ... 25	■ 3RV2021-4DA10	3RV23 21-4DC10	3RV21 21-4DA10			
	28	23 ... 28	3RV2021-4NA10	10220.-	3RV23 21-4NC10	9840.-	3RV21 21-4NA10	16920.-
	32	27 ... 32	■ 3RV2021-4EA10	3RV23 21-4EC10	3RV21 21-4EA10			
	36	30 ... 36	3RV2021-4PA10	11685.-	3RV23 21-4PC10	11360.-	-	-
40	34 ... 40	■ 3RV2021-4FA10	3RV23 21-4FC10	-	-	-		
S2	25	18 - 25	■ 3RV10 31-4DA10	10990.-	3RV13 31-4DC10	10135.-	3RV11 31-4DA10	17415.-
	32	22 - 32	■ 3RV10 31-4EA10	12100.-	3RV13 31-4EC10	11275.-	3RV11 31-4EA10	19185.-
	40	28 - 40	■ 3RV10 31-4FA10	14785.-	3RV13 31-4FC10	13965.-	3RV11 31-4FA10	20150.-
	45	36 - 45	3RV10 31-4GA10	15560.-	3RV13 31-4GC10	14370.-	3RV11 31-4GA10	21200.-
S3	50	40 - 50	3RV10 31-4HA10	15560.-	3RV13 31-4HC10	14370.-	3RV11 31-4HA10	21200.-
	50	36 - 50	■ 3RV10 41-4HA10		3RV13 41-4HC10		3RV11 42-4HA10	
	63	45 - 63	■ 3RV10 41-4JA10	16340.-	3RV13 41-4JC10	15095.-	3RV11 42-4JA10	22260.-
	75	57 - 75	3RV10 41-4KA10	3RV13 41-4KC10	3RV11 42-4KA10			
90	70 - 90	3RV10 41-4LA10	16340.-	3RV13 41-4LC10	15095.-	3RV11 42-4LA10	22260.-	
100	80 - 100	3RV10 41-4MA10	3RV13 41-4MC10	3RV11 42-4MA10				

## MPCB: Class 20

MPCB Size	MPCB rated current A	MPCB shortcircuit setting A	MPCB overload range A	Type <sup>1)</sup>	Unit MRP ₹	Std. pkg. (nos.)
S2	16	208	11-16	3RV10 31-4AB10	12500.-	1
	20	260	14-20	3RV10 31-4BB10		1
	25	325	18-25	3RV10 31-4DB10	13775.-	1
	32	416	22-32	3RV10 31-4EB10	14615.-	1
	40	520	28-40	3RV10 31-4FB10	16100.-	1
	45	585	36-45	3RV10 31-4GB10	17305.-	1
	50	650	40-50	3RV10 31-4HB10	18105.-	1

1) MPCB trips on SC and also on OL

2) MPCB trips on SC

3) MPCB trips on SC and opens contactor on OL

\* 3RV20: For ordering spring type terminal please replace 11th digit from "1" to "2" (available upto 32A)

\* 3RV23: For ordering spring type terminal please replace 11th digit from "1" to "2" (available upto 40A)

\* Spring type terminals are not available for relay function MPCB 3RV21

## Accessories for 3RV2

### Mountable accessories

Type of accessory		Version	For MPCB size	Type*	Unit MRP ₹	Std. pkg. (nos.)
Front auxiliary contacts with screw terminals	1 CO		S00, S0	■ 3RV29 01-1D#	555.-	10
	1 NO + 1 NC			3RV29 01-1E	670.-	10
Side auxiliary contacts with screw terminals	1 NO + 1 NC		S00, S0	■ 3RV29 01-1A	740.-	2
	2 NO			3RV29 01-1B		2
	2 NC			3RV29 01-1C		2
Alarm contact	Signaling switches	For trip and short-circuit, 1 NO + 1 NC each	S00, S0	■ 3RV29 21-1M	1715.-	1
Isolator modules	Visible isolating distance for isolating individual motor protection circuit breaker		S00, S0	3RV29 28-1A#	3130.-	1



# Available with screw type terminals only

Type of accessory		Rated control supply voltage	For MPCB size	Type*	Unit MRP ₹	Std. pkg. (nos.)
Undervoltage trip units, Screw terminals	110V 50Hz / 120V 60Hz		S00, S0	3RV29 02-1AF0#	1970.-	1
	230V 50Hz / 240V 60Hz		S00, S0	3RV29 02-1AP0		1
	400V 50Hz / 440V 60Hz		S00, S0	3RV29 02-1AV0		1
Shunt trip units, Screw terminals	20...24V 50/60 Hz (100% ON period) 20...70V 50/60Hz, DC (5s ON period)		S00, S0	3RV29 02-1DB0	1970.-	1
	90...110V 50/60 Hz (100% ON period) 70...190V 50/60Hz, DC (5s ON period)		S00, S0	3RV29 02-1DF0		1
	210...240V 50/60 Hz (100% ON period) 190...330V 50/60Hz, DC (5s ON period)		S00, S0	3RV29 02-1DP0		1
	350...415V 50/60 Hz (100% ON period) 330...500V 50/60Hz, DC (5s ON period)		S00, S0	3RV29 02-1DV0#		1

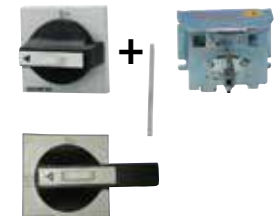


\*For ordering with spring type terminals, please replace 8th digit from '1' to '2'

# Spring type terminals are not available for this accessory

### Door-coupling rotary operating mechanism

Type of accessory	Color of knob	Version	For MPCB Size	Type	Unit MRP ₹	Std. pkg. (nos.)
Door-coupling rotary operating mechanism It has features like door interlock, defeat facility, padlocking facility	Black	Breaker operating kit with 300 mm shaft length & front drive (fixed coupler)	S00, S0	3RV19 26-1B-Z®	2035.-	1
Front drive (available as spare) – fixed coupler			S00, S0	8UC626	705.-	1



@ 1 set available with breaker operator kit and 8UC front drive together

## Accessories for 3RV2

### Busbar accessories

Type of accessory	Modular spacing mm	Number of MPCBs that can be connected			Current rating at 690V A	For MPCB size *	Type	Unit MRP ₹	Std. pkg. (nos.)
		Without lateral accessories	Incl. lateral auxiliary switch	With auxiliary release					
3-phase busbar system	45	2	-	-	63	S00, S0	3RV19 15-1AB	855.-	10
		3	-	-		S00, S0	3RV19 15-1BB		10
		4	-	-		S00, S0	3RV19 15-1CB	1215.-	1
		5	-	-		S00, S0	3RV19 15-1DB	1370.-	1
	55	-	2	-		S00, S0	3RV19 15-2AB	815.-	1
		-	3	-		S00, S0	3RV19 15-2BB	855.-	1
		-	4	-		S00, S0	3RV19 15-2CB	1165.-	1
		-	5	-		S00, S0	3RV19 15-2DB	1370.-	1
	63	-	-	2		S00, S0	3RV19 15-3AB	1060.-	1
		-	-	4		S00, S0	3RV19 15-3CB	1375.-	1



\* Not suitable for 3RV21 MPCBs with overload relay function and also for 3RV27, 3RV28 with UL / CSA motor protection circuit breaker Auxiliary releases and lateral auxiliary switches cannot be used in combination.

Type of accessory	Version	Conductor cross-section			For MPCB size	Type	Unit MRP ₹	Std. pkg. (nos.)
		Solid or stranded	Finely stranded with end sleeve	AWG cable, solid or stranded				
		mm <sup>2</sup>	mm <sup>2</sup>	AWG				
3-phase feeder terminals	connection from top	2.5...16	2.5...16	10 ... 4	S00, S0	3RV29 25-5AB	1005.-	1
	connection from bottom ***	2.5...16	2.5...16	10 ... 4	S00,S0	3RV29 15-5B	1130.-	1



\*\*\* This terminal is connected in place of a switch, please take the space requirement into account.

## Accessories for 3RV1

### Mountable accessories

Type of accessory	Version	For MPCB size	Type*	Unit MRP ₹	Std. pkg. (nos.)
Front auxiliary contacts	1 C/O 1NO + 1NC	S00, S0, S2 and S3	3RV19 01 1D	555.-	10
			3RV19 01 1E	670.-	10
Side auxiliary contact	1NO + 1NC 2NO 2NC		3RV19 01 1A	740.-	2
			3RV19 01 1B		2
			3RV19 01 1C		2
Alarm contact#	1NO + 1NC each for trip and S/C trip		3RV19 21 1M	1715.-	1

# Alarm contact: For Size S0, S2, S3

Description	Version	Type	Unit MRP ₹	Std. pkg. (nos.)	Description	Version	Type	Unit MRP ₹	Std. pkg. (nos.)	
U/V release	110V, 50Hz	3RV19 02 1AF0	1970.-	1	3 phase busbars with modular spacing 45mm (For MPCB <b>w/o</b> side accessories)	for 2 MPCBs, size S0 on left, size S00 on right	3RV19 15 5DB	855.-	10	
	230V, 50Hz	3RV19 02 1AP0		1						
	400V, 50Hz	3RV19 02 1AV0		1						
Shunt release	24V AC/DC	3RV19 02 1DB0	1970.-	1		3 phase busbars with modular spacing 63mm (For MPCB <b>with</b> side accessories)	for 2 MPCBs, size S00,S0	3RV19 15 3AB	1060.-	10
	110V AC/DC	3RV19 02 1DF0		1						
	230V AC/220V DC	3RV19 02 1DP0		1		for 4 MPCBs, size S00,S0	3RV19 15 3CB	1375.-	10	
	415 V AC/440V DC	3RV19 02 1DV0		1						
Door operating mechanism with door interlock, defeat facility, padlocking facility extension shaft 300mm	Breaker operating kit for size & front drive (fixed coupler)	3RV19 26 1B-Z® 3RV19 36 1B-Z® 3RV19 46 1B-Z®	2035.- 2245.- 2950.-	1	3 phase busbars with modular spacing 55mm (For MPCB <b>w/o</b> side accessories)	for 2 MPCBs, size S2	3RV19 35 1A	1260.-	5	
	S0			1						
	S2			1	for 4 MPCBs, size S2	3RV19 35 1C	1930.-	5		
S3	1									
Front drive – fixed coupler (available as spare)	S0, S2, S3	8UC626	710.-	1	3 phase busbars with modular spacing 75mm (For MPCB <b>with</b> side accessories)	for 2 MPCBs, size S2	3RV19 35 3A	1930.-	1	
				1						for 4 MPCBs, size S2
Isolator module (to ensure visible isolation)	for MPCBs, size S0	3RV19 28 1A	3130.-	1	3 phase in feed terminals	for MPCBs, size S00	3RV19 15 5A	915.-	10	
	for MPCBs, size S2	3RV19 38 1A	5730.-	1						
3 phase busbars with modular spacing 45mm (For MPCB <b>w/o</b> side accessories)	for 2 MPCBs, size S00 or S0	3RV19 15 1AB	855.-	10						for MPCBs, size S0
	for 3 MPCBs	3RV19 15 1BB		10	for MPCBs, size S2	3RV19 35 5A	1740.-	2		
	for 4 MPCBs	3RV19 15 1CB		1215.-	10					
	for 5 MPCBs	3RV19 15 1DB		1370.-	10					

@ 1 set available with breaker operator kit and 8UC front drive together

## Motor protection circuit breakers - 3VU



### MPCBs for motor and plant protection

Overload release range A	Type (w/o aux. contact)	Unit MRP ₹	Type (with 1NO+1NC)	Unit MRP ₹	Std. pkg. (nos.)
0.1 - 0.16	3VU13 40-0MB00	2950.-	3VU13 40-1MB00	3460.-	1
0.16 - 0.24	3VU13 40-0MC00		3VU13 40-1MC00		1
0.24 - 0.4	3VU13 40-0MD00		3VU13 40-1MD00		1
0.4 - 0.6	3VU13 40-0ME00	3430.-	■ 3VU13 40-1ME00	3940.-	1
0.6 - 1	3VU13 40-0MF00		■ 3VU13 40-1MF00		1
1 - 1.6	3VU13 40-0MG00	3455.-	■ 3VU13 40-1MG00	3965.-	1
1.6 - 2.4	3VU13 40-0MH00		■ 3VU13 40-1MH00		1
2 - 3.2	3VU13 40-0NH00	3545.-	■ 3VU13 40-1NH00	4055.-	1
2.4 - 4	3VU13 40-0MJ00		■ 3VU13 40-1MJ00		1
3.2 - 5	3VU13 40-0NJ00		■ 3VU13 40-1NJ00		1
4 - 6	3VU13 40-0MK00		■ 3VU13 40-1MK00		1
5 - 8	3VU13 40-0NK00		■ 3VU13 40-1NK00		1
6 - 10	3VU13 40-0ML00		■ 3VU13 40-1ML00		1

Overload release range A	Type (w/o aux. contact)	Unit MRP ₹	Type (with 1NO+1NC)	Unit MRP ₹	Std. pkg. (nos.)
8 - 13	3VU13 40-0NL00	4110.-	■ 3VU13 40-1NL00	4615.-	1
10 - 16	3VU13 40-0MM00		■ 3VU13 40-1MM00		1
14 - 20	3VU13 40-0MN00		■ 3VU13 40-1MN00		1
18 - 25	3VU13 40-0MP00	4850.-	■ 3VU13 40-1MP00	5360.-	1
6 - 10	3VU16 40-0ML00	7860.-	■ 3VU16 40-1ML00	8365.-	1
10 - 16	3VU16 40-0MM00		■ 3VU16 40-1MM00		1
16 - 25	3VU16 40-0MN00	9550.-	■ 3VU16 40-1MN00	10065.-	1
22 - 32	3VU16 40-0MP00		■ 3VU16 40-1MP00		1
28 - 40	3VU16 40-0MQ00	10245.-	■ 3VU16 40-1MQ00	10760.-	1
36 - 52	3VU16 40-0MR00		■ 3VU16 40-1MR00		1
45 - 63 <sup>#</sup>	3VU16 40-0LS00	12180.-	3VU16 40-1LS00	12700.-	1

# Circuit - breakers for plant protection

### 3TF-3VU connector\*\*



MPCB		Contactor		MLFB of Connector	Unit MRP ₹	Std. pkg. (nos.)
MLFB	Current	MLFB Rating	AC3 Current Rating			
3VU13	0.16 to 20A	3TF30 / 31	9 / 12 A	3TS9001-8K	240.-	1
3VU13	6 to 25A	3TF32 / 33	16 / 22A	3TS9002-8K	280.-	1

\*\* For more details refer page 41

### Circuit breakers with aux. 1NO+1NC, for fuse monitoring

Rated current In A	Overload release range A	Shortcircuit release setting A	Type	Unit MRP ₹	Std. pkg. (nos.)
0.2	0.2	1.2	■ 3VU13 40-1MS00	3465.-	1

### Circuit breakers with aux. 1NO+1NC, for line-side protection of transformers with high inrush current

Rated current In A	Overload release range A	Shortcircuit release setting A	Type	Unit MRP ₹	Std. pkg. (nos.)
0.6	0.4 - 0.6	12	3VU13 40-1TE00	5510.-	1
1	0.6 - 1	15	3VU13 40-1TF00		1
1.6	1 - 1.6	29	3VU13 40-1TG00		1
2.4	1.6 - 2.4	48	3VU13 40-1TH00		1
4	2.4 - 4	72	3VU13 40-1TJ00		1
6	4 - 6	120	3VU13 40-1TK00		1
10	6 - 10	190	3VU13 40-1TL00		1
16	10 - 16	300	3VU13 40-1TM00		1
20	14 - 20	300	3VU13 40-1TN00		1

## Accessories for 3VU13 / 3VU16

Description (for 3VU13 & 3VU16)	Version	Type	Unit MRP ₹	Std. pkg. (nos.)
Add-on aux. block	1 NO + 1 NC	■ 3VU9 131-3AA00	665.-	1
Short-circuit signaller	1 NO + 1 NC	■ 3VU9 131-7AA00	785.-	1
Undervoltage release	230 V, 50 Hz	3VU9 132-0AB15	1845.-	1
Shunt trip	230 V, 50 Hz 24 V, 50 Hz DC 110-240 V	3VU9 132-0AB55		1
		3VU9 132-0AB50		1
		3VU9 132-0AB73		1
Toggle padlocking device	Locking in Off pos device	3VU9 168-0KA00	495.-	1

Description	Version	Type	Unit MRP ₹	Std. pkg. (nos.)
50 kA current limiter for 3VU13 only	Rated current = 56 A aux contacts 1NO+1NC	3VU9 138-2AB00	5155.-	1
Three-phase busbar for 3VU13 only	In feed terminal (63 A)	3RV1 925-5AB	1005.-	1
	busbars for 2 MPCBs	3VU9 135-1AB02	735.-	1
	busbars for 3 MPCBs	3VU9 135-1AB03	885.-	1
	busbars for 4 MPCBs	3VU9 135-1AB04	1140.-	1
	busbars for 5 MPCBs	3VU9 135-1AB05	1290.-	1
Door operating mechanism with door interlock, defeat facility, pad locking facility, extension shaft 300mm	Breaker operating kit & front drive (fixed coupler) for 3VU13 for 3VU16	■ 3VU9 133-Z <sup>®</sup>	2035.-	1
		■ 3VU9 163-Z <sup>®</sup>	2175.-	1
Front drive for 3VU13 & 3VU16	Fixed coupler	■ 8UC 616	625.-	1

@ 1 set available with breaker operator kit and 8UC front drive together

■ Stock items

Please order in multiples of standard packing.

MRP - Maximum Retail Price



## Digital soft starters - SIRIUS 3RW30/40/44

### 3RW30 - For standard applications

- Compact design
- Integrated bypass contact system
- Soft start
- Innovative 2-phase "Polarity Balancing" operation



Rated operating voltage U <sub>e</sub> , In line circuit V AC	Motor rating at 415V, 40°C, normal starting, in line circuit kW	Rated operating current I <sub>e</sub> (AC-53a) A (40°C/50°C/60°C)	Type	Unit MRP ₹	Std. pkg. (nos)
200-480	1.5	3.6/3.3/3	3RW3013-1BB\$4	9475.-	1
200-480	3	6.5/6/5.5	3RW3014-1BB\$4	10995.-	1
200-480	4	9/8/7	3RW3016-1BB\$4	12600.-	1
200-480	5.5	12.5/12/11	3RW3017-1BB\$4	14925.-	1
200-480	7.5	17.6/17/14	3RW3018-1BB\$4	17965.-	1
200-480	11	25.3/23/21	3RW3026-1BB\$4	19840.-	1
200-480	15	32.2/29/26	3RW3027-1BB\$4	25920.-	1
200-480	18.5	38/34/31	3RW3028-1BB\$4	32355.-	1
200-480	22	45/42/39	3RW3036-1BB\$4	35215.-	1
200-480	30	65/58/53	3RW3037-1BB\$4	47905.-	1
200-480	37	72/62.1/60	3RW3038-1BB\$4	58990.-	1
200-480	45	80/73/66	3RW3046-1BB\$4	66140.-	1
200-480	55	106/98/90	3RW3047-1BB\$4	73290.-	1

**\$ Order No. supplement for rated control supply voltage Us**

- 24 V AC/DC 0
- 110 ... 230 V AC/DC 1

### 3RW40 - For standard applications

- Soft start, soft stop, adjustable current limit.
- Integrated bypass contact system eliminates use of external bypass contactor and saves power loss.
- Integrated microprocessor based overload relay with adjustable trip class 10/15/20.
- Overload relay remains active even when soft starter is in bypass mode. Easy fault diagnosis with LED display for: incorrect I<sub>e</sub>/trip class setting, motor protection switched off, thyristor thermally overloaded, mains supply missing or <75%, phase loss and equipment error.
- Intrinsic device protection to protect against thermal overloading of thyristors.
- Innovative 2-phase "Polarity Balancing" operation



Rated operating voltage U <sub>e</sub> , In line circuit V AC	Motor rating at 415V, 40°C, normal starting, in line circuit kW	Rated operating current I <sub>e</sub> (AC-53a) A (40°C/50°C/60°C)	Type	Unit MRP ₹	Std. pkg. (nos)
200...480	5.5	12.5 / 11 / 10	3RW4024 1BB\$4	23720.-	1
200...480	11	25 / 23 / 21	3RW4026 1BB\$4	29305.-	1
200...480	15	32 / 29 / 26	3RW4027 1BB\$4	36290.-	1
200...480	18.5	38 / 34 / 31	3RW4028 1BB\$4	44660.-	1
200...480	22	45 / 42 / 39	3RW4036 1BB\$4	50645.-	1
200...480	30	63 / 58 / 53	3RW4037 1BB\$4	59810.-	1
200...480	37	72 / 62 / 60	3RW4038 1BB\$4	67780.-	1
200...480	45	80 / 73 / 66	3RW4046 1BB\$4	76420.-	1
200...480	55	106 / 98 / 90	3RW4047 1BB\$4	85060.-	1

**\$ Control Voltage Code: 0 for 24V AC / DC; 1 for 110...230V AC / DC**

For 3RW40 soft starters with thermistor protection in the above range please add ₹ 6600.- to above price and change the 9th digit in the type reference to 'T' from 'B'. (e.g. 3RW4024 1TB04). The 3RW40 soft starter with thermistor protection can be offered with 24 V AC/DC supply voltage only

200...460	75	134 / 117 / 100	3RW40 55-6BB † 4	112970.-	1
200...460	90	162 / 145 / 125	3RW40 56-6BB † 4	139555.-	1
200...460	132	230 / 205 / 180	3RW40 73-6BB † 4	159490.-	1
200...460	160	280 / 248 / 215	3RW40 74-6BB † 4	192720.-	1
200...460	200	356 / 315 / 280	3RW40 75-6BB † 4	212650.-	1
200...460	250	432 / 385 / 335	3RW40 76-6BB † 4	232590.-	1

† Control voltage code: 3 for 115V AC, 4 for 230V AC

### 3RW44 - For heavy duty applications

- Soft start, soft stop, adjustable current limit, breakaway impulse and pump stop.
- Integrated bypass contact system eliminates use of external bypass contactor and saves power loss.
- Integrated microprocessor based overload relay with adjustable trip class 5/10/15/20/30.
- Overload relay remains active even when soft starter is in bypass mode.
- Thermistor protection through PTC.
- Programmable 4 inputs and 3 outputs.
- Creep speed mode for both directions and closed loop torque control.
- Easy fault diagnosis with warnings and error signals like thermal overloading of thyristors, undercurrent and overcurrent limit exceeded, ground fault, maximum number of starts exceeded.
- PC interface as standard feature.
- Optional Profibus DP / ProfiNET communication modules available.



Rated operating voltage U <sub>e</sub> , in line circuit V AC	Motor rating at 415V, 40°C, normal starting, (in line circuit) kW	Motor rating at 415V, 40°C, normal starting, (in delta circuit) kW	Rated operating current I <sub>e</sub> (AC-53a) A (40°C/50°C/60°C)	Type*	Unit MRP ₹	Std. pkg. (nos)
200...460	15	22	29 / 26 / 23	3RW44 22 1BC\$4	79340.-	1
200...460	18.5	30	36 / 32 / 29	3RW44 23 1BC\$4	93510.-	1
200...460	22	45	47 / 42 / 37	3RW44 24 1BC\$4	99175.-	1
200...460	30	55	57 / 51 / 45	3RW44 25 1BC\$4	119010.-	1
200...460	37	75	77 / 68 / 59	3RW44 26 1BC\$4	141680.-	1
200...460	45	90	98 / 82 / 72	3RW44 27 1BC\$4	178515.-	1
200...460	55	110	113 / 100 / 88	3RW44 34 6BC\$4	206855.-	1
200...460	75	132	134 / 117 / 100	3RW44 35 6BC\$4	226690.-	1
200...460	90	160	162 / 145 / 125	3RW44 36 6BC\$4	234000.-	1
200...460	110	200	203 / 180 / 156	3RW44 43 6BC\$4	241895.-	1
200...460	132	250	250 / 215 / 185	3RW44 44 6BC\$4	262630.-	1
200...460	160	315	313 / 280 / 250	3RW44 45 6BC\$4	283360.-	1
200...460	200	355	356 / 315 / 280	3RW44 46 6BC\$4	334365.-	1
200...460	250	400	432 / 385 / 335	3RW44 47 6BC\$4	380125.-	1
230...460	315	560	551 / 494 / 438	3RW44 53 6BC\$4	481710.-	1
230...460	355	630	615 / 551 / 489	3RW44 54 6BC\$4	637560.-	1
230...460	400	710	693 / 615 / 551	3RW44 55 6BC\$4	719735.-	1
230...460	450	800	780 / 693 / 615	3RW44 56 6BC\$4	793410.-	1
230...460	500	900	880 / 780 / 693	3RW44 57 6BC\$4	830245.-	1
230...460	560	1000	970 / 850 / 760	3RW44 58 6BC\$4	898250.-	1
230...460	630	1100	1076 / 970 / 880	3RW44 65 6BC\$4	1037100.-	1
230...460	710	1200	1214 / 1076 / 970	3RW44 66 6BC\$4	1175945.-	1

## Accessories for 3RW44

Description	Type	Unit MRP ₹	Std. pkg. (nos.)
Software for PC interface	3ZS1313-4CC10-0YA5	5015.-	1
PC cable for PC/PG communication - USB connection	3UF79410AA00-0	7990.-	1
Profibus communication module	3RW49000KC00	18095.-	1
<b>New</b> ProfiNET communication module	3RW49000NC00	31210.-	1
External display and operating module	3RW49000AC00	16440.-	1
- Connection cable for external display module (0.5 mtr - flat)	3UF79320AA00-0	1000.-	1
- Connection cable for external display module (1 mtr - round)	3UF79370BA00-0	2515.-	1
- Connection cable for external display module (2.5 mtr - round)	3UF79330BA00-0	2735.-	1

\* - For 3RW44 with operating voltage U<sub>e</sub> 400...600V AC: Change the last digit of MLFB from "4" to "5" and increase the standard operating voltage list price by 15%.

- For 3RW44 with operating voltage U<sub>e</sub> 400...690V AC: Change the last digit of MLFB from "4" to "6" and increase the standard operating voltage list price by 30%.

\$ Control voltage code: 3 for 115V AC, 4 for 230V AC

Note: Commissioning service is available at extra cost.

The Sirius 3RW30/40/44 soft starters are designed for normal starting conditions.  $J_{load} < 10 \times J_{motor}$

In the event of deviating conditions or higher switching frequency, it may be necessary to choose a larger unit.

**Siemens recommends use of selection and simulation program Win-SOFTSTARTER.**

Refer technical specifications for more details.

For more details, please visit: [www.siemens.com/softstarter](http://www.siemens.com/softstarter)



Siemens switchgear. Tried, tested, trusted.

## Star-delta starters - 3LW / 3TE

Handle-operated starter in S.S. housing, incl. birelay with SPP

Motor rating at 415V, 3ph, 50Hz		Type <sup>1)</sup> (HSD)	Relay range A	Unit MRP ₹	Std. pkg. (nos.)
HP	kW				
5	3.7	3LW42 90-0A.72	4-6.3	6385.-	1
10	7.5	3LW42 90-0A.74	6.3-10		
12.5	9.3	3LW42 90-0A.75	8-12.5		
15	11	3LW42 90-0A.77	10-16		

<sup>1)</sup> Enter code for coil voltage, 50Hz (B for 200-400V, W for 415V)

Automatic starter in S.S. housing, incl. birelay with SPP

Motor rating at 415V, 3ph, 50Hz		Type <sup>4)</sup> (ASD)	Relay range A	Unit MRP ₹	Std. pkg. (nos.)
HP	kW				
10	7.5	3TE02 90-0AW74 <sup>§</sup>	6.3-10	8390.-	1
12.5	9.3	■ 3TE02 90-0A.75	8-12.5	8805.-	1
15	11	■ 3TE02 90-0A.77	10-16	9030.-	1
20	15	■ 3TE02 90-0A.78	12.5-20	10975.-	1
25	18.5	■ 3TE02 90-0A.79	16-25	12230.-	1

<sup>4)</sup> Enter code for coil voltage, 50Hz (D for 230-400V, W for 415V)

§ Only coil voltage of 415V 50Hz available

Automatic starter in S.S. housing (without birelay)

Motor rating at 415V, 3ph, 50Hz		Type <sup>2)</sup> (ASD)	Unit MRP ₹	Std. pkg. (nos.)
HP	kW			
30	22	3TE04 94-2A...	18765.-	1
40	30	3TE04 94-2A...	18765.-	1
50	37	3TE04 95-2A...	26210.-	1
60	45	3TE04 96-2A...	37185.-	1
75	55	3TE04 97-2A...	45505.-	1
<b>New</b> 100	75	3TE05 94-2AR0* <sup>†</sup>	67990.-	1
<b>New</b> 125	90	3TE05 95-2AR0* <sup>†</sup>	69990.-	1
<b>New</b> 150	110	3TE05 96-2AR0* <sup>†</sup>	70990.-	1
<b>New</b> 180	132	3TE05 97-2AR0* <sup>†</sup>	75990.-	1

\*<sup>†</sup> Have in-built relay \*<sup>†</sup> Available from 1st November, 2014

<sup>2)</sup> Enter code for coil voltage, 50Hz ("R0" for 415V, "P0" for 230V)

## DOL starters - 3TW

Starter in S. S. housing, incl. birelay with SPP

Motor rating at 415V, 3ph, 50Hz		Type <sup>1)</sup> (DOL)	Relay range A	Unit MRP ₹	Std. pkg. (nos.)
HP	kW				
0.33	0.25	3TW42 90-1A.64	0.63-1	1915.-	1
0.75	0.55	3TW42 90-1A.66	1-1.6		
1	0.75	■ 3TW42 90-1A.68	1.6-2.5		
1.5	1.1	3TW42 90-1A.69	2-3.2		
2	1.5	■ 3TW42 90-1A.71	3.2-5		
3	2.2	■ 3TW42 90-1A.72	4-6.3		
5	3.7	■ 3TW42 90-1A.74	6.3-10		
-	-	■ 3TW42 90-1A.75	8-12.5		
7.5	5.5	■ 3TW42 90-1A.77	10-16		
10	7.5	■ 3TW42 90-1A.78	12.5-20		2510.-

Also available Upon enquiry

- DOL starters upto 10HP in open execution
- DOL starters upto 10HP with hand reset facility
- DOL starters upto 10HP with lockable Off

## 3TE05 Star delta starter



Contactor & Birelay list for 3TE04/ 3TE05 type ASD starter

HP	KW	3TE04/ 3TE05 type starter	Contactor Line/ Delta	Contactor Star	Bi-relay <sup>†††</sup>
30	22	3TE04 94-2A....	3TF34	3TF34	3UA55 (16-25A)
40	30	3TE04 94-2A....	3TF34	3TF34	3UA55 (20-32A)
50	37	3TE04 95-2A....	3TF35	3TF34	3UA55 (32-40A)
60	45	3TE04 96-2A....	3TF46	3TF34	3UA55 (32-50A)
75	55	3TE04 97-2A....	3TF47	3TF34	3UA55 (40-57A)
100	75	3TE05 94-2A....	3TF49	3TF47	3UA58 (70-95A)
125	90	3TE05 95-2A....	3TF50	3TF47	3UA58 (70-95A)
150	110	3TE05 96-2A....	3TF50	3TF50	3UA58 (95-120A)
180	132	3TE05 97-2A....	3TF51	3TF50	3UA62 (115-180A)

<sup>†††</sup> 3TE05 have in-built birelay whereas 3TE04 doesn't have in-built birelay

Starter in S.S.housing (without birelay - to be ordered separately)

Motor rating at 415V, 3ph, 50Hz		Type <sup>2)</sup> (DOL)	Birelay (recommended)	Unit MRP ₹	Std. pkg. (nos.)
HP	kW				
15	11	3TW04 93-2AR0* <sup>#</sup>	3UA52(16-25A)	5035.-	1
20	15	■ 3TW04 94-2A..	3UA55 (20-32A)	6180.-	1
25	18.5	■ 3TW04 95-2A..	3UA55 (25-36A)	7065.-	1
30	22	■ 3TW04 96-2A..	3UA58 (32-50A)	8715.-	1
40	30	3TW04 97-2A..	3UA58 (40-57A)	11110.-	1
50	37	3TW04 98-2A..	3UA58 (57-70A)	14415.-	1
75	55	3TW05 90-2A..	3UA5830 (85-105A)	20200.-	1

\* Only coil voltage of 415V 50Hz available

## Spares for starters

### Spares for 3TW42/3LW42 starters

Description	Type	Unit MRP ₹	Std. pkg. (nos.)
Contactors	■ 3TW0 290-0A.51 <sup>1)</sup>	1140.-	1
Main contact kit - single pole	3TX0 200-0YA1	150.-	1
Main contact kit - 3 pole	■ 3TX0 200-0YA0	435.-	1
Coil	■ 3TX0 203-0Y.6 <sup>1)</sup>	245.-	1
Moving contact carrier	3TX0 200-0YD0	150.-	10
Arc chamber	■ 3TX0 202-0YA0	55.-	10
Aux. fixed contacts	3TX0 200-1YB0	20.-	10
Aux. moving contacts	3TX0 200-1YC0	20.-	10
Birelay	3UW5 002.. <sup>5</sup>	Upon enquiry	1
'On' actuator for 3TW42	■ 3TX0 204-1YA0	125.-	1
'Off' actuator for 3TW42	■ 3TX0 204-1YB0	125.-	1
'Reset' actuator for HSD	3TX0 204-1YR0	125.-	1
On/Off contact	■ 3SX1 551-1YA	210.-	1
Switch for HSD starter	3LA0 204-4YB	&	1

Description	Type	Unit MRP ₹	Std. pkg. (nos.)
Starter maintenance kit <sup>^</sup>	3TX02011YE0	810.-	1

<sup>5</sup> Enter code for relay range

& Refer to the valid LV Power distribution products MRP

<sup>^</sup> For details please contact nearest sales office

<sup>1)</sup> Enter code for coil voltage, 50Hz (B for 200-400V, W for 415V)

### Code for 3UW50 relay range

Relay range	0.63-1	1-1.6	1.6-2.5	2-3.2	3.2-5	4-6.3	6.3-10	8-12.5	10-16	12.5-20	16-25
Code	0J	1A	1C	1D	1F	1G	1J	1K	2A	2B	2C

### ■ Stock items

Please order in multiples of standard packing.

### Spares for 3TE02 starters

Description	Type	Unit MRP ₹	Std. pkg. (nos.)
Contactors (1NO+1NC)	3TW0 311-0A&51	1985.-	1
Contactors (2NO)	3TW0 320-0A&51	1985.-	1
Main contact kit three pole	3TX0 300-0YA0	880.-	1
Main contact kit single pole	3TX0 300-0YA1	335.-	1
Coil	3TX0 303-0Y&6	335.-	1
Aux. fixed contacts (NO)	3TX0 300-1YB0	70.-	10
Aux. fixed contacts (NC)	3TX0 300-1YD0	70.-	10
Aux. moving contacts	3TX0 300-1YC0	70.-	10
Birelay	3UW5 002.. <sup>5</sup>	Upon enquiry	1
Star-delta timer	3RP15 76 1N#20 8K	2005.-	1

& Enter code for coil voltage, 50Hz (D for 230-400V, W for 415V)

# Enter control voltage code (M for 200-240V / 380-440V, P for 230-400V)

### Spares for other starters

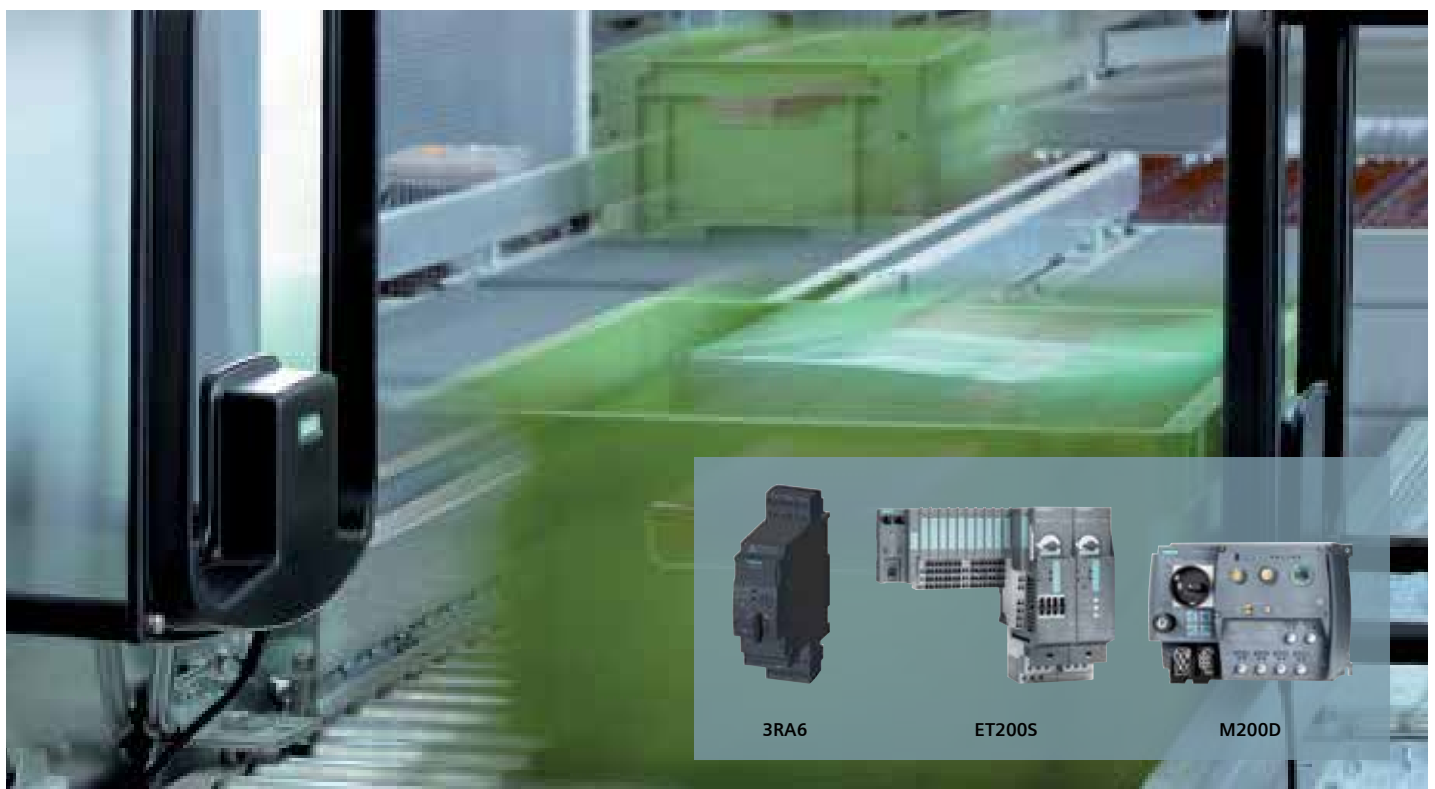
Description	Type	Unit MRP ₹	Std. pkg. (nos.)
Main, aux contacts & spare coils	Refer page 42	-	-
On/Off actuators	■ 3SX1 552-1YA	210.-	1
On/Off contact	■ 3SX1 551-1YA	105.-	1
On/Off actuator for 3TE05 only	3SB5201-7EC01	286.-	1
Electronic Timer	3RP15 76-1NM20 8K	2005.-	1
Accessory for independent mounting of 3UA58	3UX1421-0XA	475.-	1

† Enter code for coil voltage F0 (110V), P0 (230V), R0 (415V)

For replacing 3TF44 order 3TF3422 and for replacing 3TF45 order 3TF3522

# 1NO + 1NC @ 2NO + 2NC

## Innovation Continues with range of communication capable Motor Starters!



## Electronic timers - 3RP



Function	Time range	Input voltage		Type	Unit MRP ₹	Std. pkg. (nos.).
		AC (50/60Hz)	DC			
On-delay with 1C/O contacts	0.5 – 10 sec	24/100-127	24	<ul style="list-style-type: none"> <li>■ 3RP15 11-1AQ30 8K</li> <li>■ 3RP15 11-1AP30 8K</li> </ul>	1850.-	1
		24/200-240	24			
	5 – 100 sec	24/100-127	24	<ul style="list-style-type: none"> <li>■ 3RP15 13-1AQ30 8K</li> <li>■ 3RP15 13-1AP30 8K</li> </ul>	1860.-	1
		24/200-240	24			
0.05 sec to 100 Hrs. (15 time setting ranges)	24/100-127	24/200-240	24	<ul style="list-style-type: none"> <li>■ 3RP15 25-1AQ30 8K</li> <li>■ 3RP15 25-1AP30 8K</li> </ul>	2725.-	1
			24 to 240			
Off-delay with 1C/O contacts	0.5 – 10 sec	24/100-127	24	<ul style="list-style-type: none"> <li>■ 3RP15 31-1AQ30 8K</li> <li>■ 3RP15 31-1AP30 8K</li> </ul>	2450.-	1
		24/200-240	24			
	5 – 100 sec	24/100-127	24	<ul style="list-style-type: none"> <li>■ 3RP15 33-1AQ30 8K</li> <li>■ 3RP15 33-1AP30 8K</li> </ul>	2485.-	1
		24/200-240	24			
Multi-function with 1C/O contacts	0.05 sec to 100 Hrs. (15 time setting ranges)	24 - 240		<ul style="list-style-type: none"> <li>■ 3RP15 05-1AW30 8K</li> </ul>	3785.-	1
		Label set - 8 functions (On delay, Off delay, On+Off delay, flashing, pulse make contact, pulse break contact, pulse shaping and additive ON delay)			3RP19 01-0A 8K*	750.- <sup>5</sup>
Star-Delta 1NO inst & 1NO delayed	1 – 20 sec	200-240 / 380-440V AC		3RP15 74-1NM20 8K	1920.-	1
	3 – 60 sec	24/100-127	24	<ul style="list-style-type: none"> <li>■ 3RP15 76-1NQ30 8K</li> </ul>	1955.-	1
		24/200-240	24	<ul style="list-style-type: none"> <li>■ 3RP15 76-1NP30 8K</li> </ul>	1955.-	1
		200-240/380-440V AC		<ul style="list-style-type: none"> <li>■ 3RP15 76-1NM20 8K</li> </ul>	2005.-	1
		230-400V AC		<ul style="list-style-type: none"> <li>■ 3RP15 76-1NP20 8K</li> </ul>	2005.-	1
Push-in lug (for mounting 3RP timer with screws)				3RP19 03 8K (1 pack = 10 pcs)	155.- <sup>5</sup>	1 pack

# with 2C/O contacts

\$ Price per pack

\* 1 pack consists of 1 label set

## 3RR2 Current monitoring relays

The relays can be installed as a stand-alone unit using the suitable terminal bracket.

### Screw Terminals



Size of relay / contactor	Set current value of the inverse-time delayed overload release A	Supply voltage	Type*	Unit MRP ₹	Std. pkg. (nos.)
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Size of relay / contactor	Set current value of the inverse-time delayed overload release A	Supply voltage	Type*	Unit MRP ₹	Std. pkg. (nos.)
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#### Basic Version

S00	1.6...16	24V AC/DC	3RR21 41-1AA30	8320.-	1
	1.6...16	24...240V AC/DC	3RR21 41-1AW30	9075.-	1
S0	4 ... 40	24V AC/DC	3RR21 42-1AA30	9835.-	1
	4 ... 40	24...240V AC/DC	3RR21 42-1AW30	11350.-	1

#### Standard Version

S00	1.6...16	24V AC/DC	3RR22 41-1FA30	16645.-	1
	1.6...16	24...240V AC/DC	3RR22 41-1FW30	18155.-	1
S0	4 ... 40	24V AC/DC	3RR22 42-1FA30	19675.-	1
	4 ... 40	24...240V AC/DC	3RR22 42-1FW30	21190.-	1

For ordering terminal bracket for stand alone installation please refer page no. 45

\*For ordering current monitoring relay 3RR with spring type terminals, please replace 8th digit from '1' to '2'

## Line monitoring relays - 3UG

Phase Sequence	Phase Failure	Phase Imbalance	Under Voltage	Over Voltage	Delay times	Display	Contacts	Line Supply Voltage	MLFB	Unit MRP ₹	Std. pkg. (nos.)
Yes	Yes	10%	-	-	-	-	1 CO	160-690V	3UG45 12 1AR20	8265.-	1
Yes	Yes	20%	160-690V	-	Off delay 0.1-20 s	-	2 CO	160-690V	3UG45 13 1BR20	10960.-	1
Yes	Yes	Yes	160-690V	160-690V	Off delay 0.1-20 s	Yes	2 CO	160-690V	3UG46 15 1CR20	15875.-	1

## Thermistor motor protection relay - 3RN1

Type of Thermistor	Reset	Contacts	Control Supply voltage	MLFB	Unit MRP ₹	Std. pkg. (nos.)
PTC type A	Auto	1CO	230V AC	3RN1000-1AM00	4765.-	1

■ Stock items



New  
range

## Timing and Monitoring Relays

### Advantages

#### Monitoring Relays

- Two sizes for the entire range 17.5mm & 35mm width
- Compact range
- The entire range is suitable for DIN rail mounting
- Variant with digital display
- Wide sensing range
- Auto / Manual reset
- LED indication for fault status

#### Timing Relays

- The entire range is available in 17.5mm width
- Lean range, just 4 timers covering the entire portfolio
- DIN rail mounting
- Digital display for multifunction timers
- Wide setting range
- LED indication for fault status



Siemens switchgear. Tried, tested, trusted.

## 7UG0 monitoring relays



Description			Type	Unit MRP ₹	Std. pkg. (nos.)
Line monitoring relay	Self powered	3Ph-3W	7UG0 712-1AA20	985.-	1
	Self powered	3Ph-3W, 3Ph-4W	7UG0 818-1CA20	2270.-	1
Voltage Monitoring relay	Self powered	3Ph-3W	7UG0 753-1AA20	1710.-	1
Current Monitoring relay	110 V AC	1Ph-2W	7UG0 821-1AB20	2990.-*	1
	230 V AC	1Ph-2W	7UG0 822-1AD20	2845.-*	1
	110 V AC	1Ph-2W, 3Ph-3W, 3Ph-4W	7UG0 8311-AB20	3635.-*	1
	230 V AC	1Ph-2W, 3Ph-3W, 3Ph-4W	7UG0 832-1AD20	3460.-*	1
Earth leakage relay	110 V AC	1Ph-2W, 3Ph-3W, 3Ph-4W	7UG0 841-1CB20	3635.-	1
	230 V AC	1Ph-2W, 3Ph-3W, 3Ph-4W	7UG0 842-1CD20	3635.-	1
CBCT		35mm	7UG0 9-96	1265.-	1
		70mm	7UG0 9-97	1480.-	1
		120mm	7UG0 9-99	2395.-	1



\* Available from 1st Dec2014

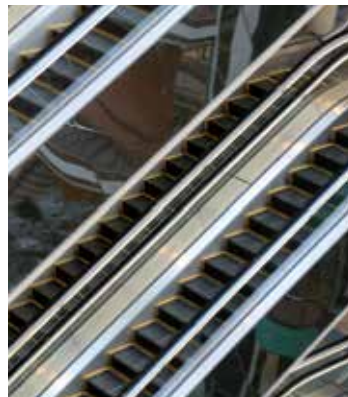
## 7PV0 timers



Description			Type	Unit MRP ₹	Std. pkg. (nos.)
ON delay timer	230V AC		7PV0712-1AD20	1050.-	1
Multifunction timer	20-240V AC/DC	5 functions	7PV0722-1BV20	1360.-	1
Multifunction timer	20-240V AC/DC	15 functions	7PV0732-1AV20	1915.-	1



Air conditioning & compressors



Lifts  
Passenger transport



Transportable systems



Automotive industry



Lighting control



Plastics processing machines



Building systems



Food & Beverages

## Indicating Lamps 3SB5


### Compact LED indicating lamps

	Voltage	Colour	Type Ref.	Unit MRP ₹	Std Pkg (nos.)
	24 V AC/DC 50/60 Hz	Red	3SB52 85-6HC01	231.-	10
		Green	3SB52 85-6HE01	231.-	10
		Amber	3SB52 85-6HL01	231.-	10
		Blue	3SB52 85-6HF01	593.-	10
		White	3SB52 85-6HG01	231.-	10
		Yellow	3SB5285-6HD01	231.-	10
		Clear	3SB5285-6HH01	231.-	10
	30V DC ®	Red	3SB5285-6HC13	252.-	10
		Green	3SB5285-6HE13	252.-	10
		Amber	3SB5285-6HL13	252.-	10
		Blue	3SB5285-6HF13	668.-	10
		White	3SB5285-6HG13	252.-	10
		Yellow	3SB5285-6HD13	252.-	10
		Clear	3SB5285-6HH13	252.-	10
	110 V AC 50/60 Hz	Red	3SB52 85-6HC02	231.-	10
		Green	3SB52 85-6HE02	231.-	10
		Amber	3SB52 85-6HL02	231.-	10
		Blue	3SB52 85-6HF02	593.-	10
		White	3SB52 85-6HG02	231.-	10
		Yellow	3SB52 85-6HD02	231.-	10
		Clear	3SB52 85-6HH02	231.-	10
	110 V DC®	Red	3SB52 85-6HC04	250.-	10
		Green	3SB52 85-6HE04	250.-	10
		Amber	3SB52 85-6HL04	250.-	10
		Blue	3SB52 85-6HF04	662.-	10
		White	3SB52 85-6HG04	250.-	10
		Yellow	3SB52 85-6HD04	250.-	10
		Clear	3SB52 85-6HH04	250.-	10
	220/240 V AC 50/60 Hz	Red	3SB52 85-6HC03	231.-	20
		Green	3SB52 85-6HE03	231.-	20
		Amber	3SB52 85-6HL03	231.-	20
		Blue	3SB52 85-6HF03	593.-	10
		White	3SB52 85-6HG03	231.-	20
		Yellow	3SB52 85-6HD03	231.-	20
		Clear	3SB52 85-6HH03	231.-	20
	220 V DC®	Red	3SB52 85-6HC05	250.-	10
		Green	3SB52 85-6HE05	250.-	10
		Amber	3SB52 85-6HL05	250.-	10
		Blue	3SB52 85-6HF05	662.-	10
		White	3SB52 85-6HG05	250.-	10
		Yellow	3SB52 85-6HD05	250.-	10
		Clear	3SB52 85-6HH05	250.-	10

### Wide band compact LED indicating lamps


	Voltage	Colour	Type Ref.	Unit MRP ₹	Std Pkg (nos.)
	42 to 240 V AC & 42 to 220 V DC	Red	3SB52 35-6HC14	364.-	10
		Green	3SB52 35-6HE14	364.-	10
		Amber	3SB52 35-6HL14	364.-	10
		Blue	3SB52 35-6HF14	639.-	10
		White	3SB52 35-6HG14	364.-	10
		Yellow	3SB52 35-6HD14	498.-	10
		Clear	3SB52 35-6HH14	498.-	10

### Complete BA9s FILAMENT indicating lamps (with plastic front ring)

	Voltage	Type Ref.	Unit MRP ₹	Std Pkg (nos.)
	24 V AC/DC	3SB52 86-6H.01	117.-	10
	110 V AC/DC #	3SB52 86-6H.11	133.-	10
	230 V AC 50/60 Hz	3SB52 86-6H.12	139.-	10

Replace "." by following colour codes  
C = Red, E = Green, L = Amber, F = Blue, H = Clear


### Complete indicating lamps W/O LAMP\*\* (with plastic front ring)

	Colour	Type Ref.	Unit MRP ₹	Std Pkg (nos.)
	Red	3SB52 86-6HC00	111.-	10
	Green	3SB52 86-6HE00	111.-	10
	Amber	3SB52 86-6HL00	111.-	10
	Blue	3SB52 86-6HF00	111.-	10
	Clear	3SB52 86-6HH00	111.-	10

### Modular Indicating Lamps (with plastic front ring) Lens Assembly

	Colour	Type Ref.	Unit MRP ₹	Std Pkg (nos.)
	Red	3SB52 01-6BC00	72.-	10
	Green	3SB52 01-6BE00	72.-	10
	Amber	3SB52 01-6BL00	72.-	10
	Blue	3SB52 01-6BF00	72.-	10
	White	3SB52 01-6BG00	72.-	10
	Yellow	3SB52 01-6BD00	72.-	10
	Clear	3SB52 01-6BH00	72.-	10


### Illumination Module \$ - (suitable for INTEGRATED LED lamp)

	Voltage	Colour	Type Ref.	Unit MRP ₹	Std Pkg (nos.)	
	24 V AC/DC 50/60 Hz	Red	3SB54 00-7CC	196.-	10	
		Green	3SB54 00-7CE	196.-	10	
		Amber	3SB54 00-7CL	196.-	10	
		Blue	3SB54 00-7CF	624.-	10	
		White†	3SB54 00-7CG	196.-	10	
		Yellow	3SB54 00-7CD	196.-	10	
		110 V AC 50/60 Hz	Red	3SB54 00-7EC	196.-	10
			Green	3SB54 00-7EE	196.-	10
	Amber		3SB54 00-7EL	196.-	10	
	Blue		3SB54 00-7EF	624.-	10	
	White†		3SB54 00-7EG	196.-	10	
	Yellow		3SB54 00-7ED	196.-	10	
	110 V DC®		Red	3SB54 00-7DC	196.-	10
			Green	3SB54 00-7DE	196.-	10
		Amber	3SB54 00-7DL	196.-	10	
		Blue	3SB54 00-7DF	624.-	10	
		White†	3SB54 00-7DG	196.-	10	
		Yellow	3SB54 00-7DD	196.-	10	
		230 V AC 50/60 Hz	Red	3SB54 00-7TC	196.-	10
			Green	3SB54 00-7TE	196.-	10
	Amber		3SB54 00-7TL	196.-	10	
	Blue		3SB54 00-7TF	624.-	10	
	White†		3SB54 00-7TG	196.-	10	
	Yellow		3SB54 00-7TD	196.-	10	
220 V DC®	Red		3SB54 00-7HC	196.-	10	
	Green		3SB54 00-7HE	196.-	10	
	Amber	3SB54 00-7HL	196.-	10		
	Blue	3SB54 00-7HF	624.-	10		
	White†	3SB54 00-7HG	196.-	10		
	Yellow	3SB54 00-7HD	196.-	10		

### Illumination Module \$ - (suitable for BA9s LED lamp)

	Voltage	Colour	Type Ref.	Unit MRP ₹	Std Pkg (nos.)
	24 V AC/DC	Red	3SB54 00-8CC	328.-	10
		Green	3SB54 00-8CE	328.-	10
		Blue	3SB54 00-8CF	328.-	10
		Yellow	3SB54 00-8CD	328.-	10
	110 V AC/DC	Red	3SB54 00-8FC	410.-	10
		Green	3SB54 00-8FE	410.-	10
		Blue	3SB54 00-8FF	410.-	10
		Yellow	3SB54 00-8FD	410.-	10
	240 V AC 50/60 Hz	Red	3SB54 00-8SC	491.-	10
		Green	3SB54 00-8SE	491.-	10
		Blue	3SB54 00-8SF	491.-	10
		Yellow	3SB54 00-8SD	491.-	10

### Illumination Module \$ - (suitable for BA9s FILAMENT lamp)

	Voltage	Type Ref.	Unit MRP ₹	Std Pkg (nos.)
	24 V AC/DC (24 V lamp)	3SB54 00-6CC	111.-	10
	110 V AC/DC (130 V lamp)	3SB54 00-6FH	111.-	10
	230V AC/DC (130 V lamp)	3SB54 00-6LH	111.-	10

@ Use of bridge rectified DC source (filtered O/P) recommended  
# With voltage reducer † Can be used with clear lens.  
\*\* To be used with BA9s filament lamp of appropriate / required voltage.  
Bulb price to be added extra in above prices.

\$ Illumination module can be used with lens assembly, illuminated push buttons & illuminated selector actuators.  
■ Stock items



## Push buttons


### Modular Push button actuators (with plastic front ring)

Description	Colour	Type Ref.	Unit MRP ₹	Std Pkg (nos.)
Opaque actuator (with holder for contact block)				
	Normal	Red ■ 3SB50 00-0AC01	62.-	10
		Green ■ 3SB50 00-0AE01		
		Blue ■ 3SB50 00-0AF01		
		White ■ 3SB50 00-0AG01		
		Yellow ■ 3SB50 00-0AD01		
	Raised	Black ■ 3SB50 00-0AB01	74.-	10
		Red ■ 3SB50 00-0LC01		
		Green ■ 3SB50 00-0LE01		
		Blue ■ 3SB50 00-0LF01		
		White ■ 3SB50 00-0LG01		
	Normal	Yellow ■ 3SB50 00-0LD01	86.-	10
		Black ■ 3SB50 00-0LB01		
		Red ■ 3SB50 01-0AC01-0PQ0		
		Green ■ 3SB50 01-0AE01-0PQ0		
		Amber ■ 3SB50 01-0AL01-0PQ0		
	Raised	Blue ■ 3SB50 01-0AF01-0PQ0	91.-	10
		White ■ 3SB50 01-0AG01-0PQ0		
		Yellow ■ 3SB50 01-0AD01-0PQ0		
		Clear ■ 3SB50 01-0AH01-0PQ0		
		Red ■ 3SB52 18-0LC01-0PQ0		
	Raised	Green ■ 3SB52 18-0LE01-0PQ0	91.-	10
		Amber ■ 3SB52 18-0LL01-0PQ0		
		Blue ■ 3SB52 18-0LF01-0PQ0		
		White ■ 3SB52 18-0LG01-0PQ0		
		Yellow ■ 3SB52 18-0LD01-0PQ0		
Clear ■ 3SB52 18-0LH01-0PQ0				

### Modular Selector Actuators (with plastic front ring)

Description	Colour	Type Ref.	Unit MRP ₹	Std Pkg (nos.)
2 position opaque selector actuator (with holder for contact block)				
	Maintained	Black ■ 3SB50 00-2AB01	209.-	10
		Red ■ 3SB50 00-2AC01		
	Momentary	Black ■ 3SB50 00-2BB01		
		Red ■ 3SB50 00-2BC01		
3 position opaque selector actuator (with holder for contact block)				
	Maintained	Black ■ 3SB50 00-2DB01	214.-	10
		Red ■ 3SB50 00-2DC01		
	Momentary	Black ■ 3SB50 00-2EB01		
		Red ■ 3SB50 00-2EC01		
2 position illuminated selector actuator (with holder for contact block)				
	Maintained	Red ■ 3SB50 01-2AC01	206.-	10
		Green ■ 3SB50 01-2AE01		
		Blue ■ 3SB50 01-2AF01		
		Yellow ■ 3SB50 01-2AD01		
		Clear ■ 3SB50 01-2AH01		
	Momentary	Red ■ 3SB50 01-2BC01		
		Green ■ 3SB50 01-2BE01		
		Blue ■ 3SB50 01-2BF01		
		Yellow ■ 3SB50 01-2BD01		
		Clear ■ 3SB50 01-2BH01		
3 position illuminated selector actuator (with holder for contact block)				
	Maintained	Red ■ 3SB50 01-2DC01	219.-	10
		Green ■ 3SB50 01-2DE01		
		Blue ■ 3SB50 01-2DF01		
		Yellow ■ 3SB50 01-2DD01		
		Clear ■ 3SB50 01-2DH01		
		Momentary		
	Green ■ 3SB50 01-2EE01			
	Blue ■ 3SB50 01-2EF01			
	Yellow ■ 3SB50 01-2ED01			
	Clear ■ 3SB50 01-2EH01			

### Contact Blocks for Push button, Selector & Key Actuators

Description	Configuration	Type Ref.	Unit MRP ₹	Std Pkg (nos.)
Contact blocks for rear mounting (for panel mounting)				
	1 NO	■ 3SB54 00-0B	80.-	10
	1NC	■ 3SB54 00-0C	80.-	10
	1NO + 1 NC	■ 3SB54 00-0A	150.-	10
	2 NO	■ 3SB54 00-0E	150.-	10
	2 NC	■ 3SB54 00-0F	150.-	10

### Mushroom Actuators (with plastic front ring)



Description	Colour	Type Ref.	Unit MRP ₹	Std Pkg (nos.)
Mushroom actuator (40 mm ø) (with holder for contact block)				
momentary	Black	■ 3SB50 00-1NB01	125.-	10
	Red	■ 3SB50 00-1NC01		
push to trip, turn to release	Black	■ 3SB50 00-1CB01	161.-	10











### Mushroom Actuators (with plastic front ring) for Emergency Stop Specifications



Description	Colour	Type Ref.	Unit MRP ₹	Std Pkg (nos.)
Mushroom actuator (40 mm ø) push to trip, turn to release with 1NC	Red	■ 3SB52 03-0UC01	244.-	10
Mushroom actuator (40 mm ø) push to trip, turn to release	Red	■ 3SB50 00-0UC01	169.-	10
Mushroom actuator (40 mm ø) push to trip, key to release	Red	■ 3SB50 00-0TC01	1030.-	10







### Modular key actuators (with plastic front ring)

Description	Colour	Type Ref.	Unit MRP ₹	Std Pkg (nos.)
2 position key actuator (with holder for contact block)	Maintained	 ■ 3SB50 00-4AC01	289.-	10
		 3SB50 00-4AA01		
		 3SB50 00-4AB01		
	Momentary	 ■ 3SB50 00-4TA01	289.-	10
		 3SB50 00-4TC01		
		 ■ 3SB50 00-4HA01		
3 position key actuator (with holder for contact block)	Maintained	 ■ 3SB50 00-4HA01	377.-	10
		 3SB50 00-4HC01		
		 3SB50 00-4HB01		
	Momentary	 ■ 3SB50 00-4JA01	377.-	10

\* Key removable position  
L - Left, R - Right, C - Centre, KL - Key at Left, KR - Key at Right, KC - Key at Centre

### Twin Push Button Actuators

Description	Type Ref.	Unit MRP ₹	Std Pkg (nos.)
Complete actuator with holder for contact block			
 Opaque with 1NO & 1NC	■ 3SB52 01-7EC01	286.-	10
 Illuminated with 1NO & 1NC	■ 3SB52 34-7EC01		
Modular actuator with holder for contact block			
 Opaque	■ 3SB50 00-7EC01	131.-	10
 Illuminated	■ 3SB50 01-7EC01		

■ Stock items

## Push button Stations



### Pendant mounting : Plastic

No. of control points	Description	Type Ref.	Unit MRP ₹	Std Pkg (nos.)
<b>Metal enclosure : Aluminum Die Cast</b>				
1	Normal opaque push button - Green with 1NO contact block, "START"	3SB58 01-8AA3	889.-	1
1	Red mushroom momentary actuator, with 1NC contact block, "STOP"	3SB58 01-8AN3	968.-	1
1	Red maintained mushroom actuator, turn to release, with 1NC contact block, "E-STOP"	3SB58 01-8AM3	1274.-	1
2	Normal opaque push button - Green with 1NO contact block, "START" + Normal opaque push button - Red with 1NC contact block, "STOP"	3SB58 02-8AC3	1100.-	1
2	Normal opaque push button - Green with 1NO contact block, "START" + Red mushroom-maintained with 1NC contact block, "STOP"	3SB58 02-8AE3	1400.-	1
3	Normal opaque push button - Green with 1NO contact block, "START" + Normal opaque push button - Red with 1NC contact block, "STOP" + Normal opaque push button - Black with 1NO contact block, "REVERSE"	3SB58 03-8AH3	1575.-	1
<b>Pendant mounting : Aluminum Die Cast</b>				
2	Normal opaque push button - Green with 1NO contact block, "START" + Normal opaque push button - Red with 1NC contact block, "STOP"	3SB58 22-8AC3	1508.-	1
3	Normal opaque push button - Green with 1NO contact block, "START" + Normal opaque push button - Red with 1NC contact block, "STOP" + Normal opaque push button - Black with 1NO contact block, "REVERSE"	3SB58 23-8AH3	1965.-	1
<b>Plastic Enclosure</b>				
1	Normal opaque push button - Green with 1NO contact block, "START"	3SB58 01-7AA3	529.-	1
1	Red mushroom momentary actuator, with 1NC contact block, "STOP"	3SB58 01-7AN3	529.-	1
1	Red maintained mushroom actuator, turn to release, with 1NC contact block, "E-STOP"	3SB58 01-7AM3	566.-	1
2	Normal opaque push button - Green with 1NO contact block, "START" + Normal opaque push button - Red with 1NC contact block, "STOP"	3SB58 02-7AC3	614.-	1
2	Normal opaque push button - Green with 1NO contact block, "START" + Red mushroom-maintained with 1NC contact block, "STOP"	3SB58 02-7AE3	710.-	1
3	Normal opaque push button - Green with 1NO contact block, "START" + Normal opaque push button - Red with 1NC contact block, "STOP" + Normal opaque push button - Black with 1NO contact block, "REVERSE"	3SB58 04-7AG3	788.-	1

No. of control points	Description	Type Ref.	Unit MRP ₹	Std Pkg (nos.)
1	Normal opaque push button - Green with 1NO contact block, "START"	3SB5821-7AA3	1143.-	1
2	Normal opaque push button - Green with 1NO contact block, "START" + Normal opaque push button - Red with 1NC contact block, "STOP"	3SB5822-7AC3	1394.-	1
3	Normal opaque push button - Green with 1NO contact block, "FORWARD" + Normal opaque push button - Red with 1NC contact block, "STOP" + Normal opaque push button - Black with 1NO contact block, "REVERSE"	3SB5823-7AH3	1816.-	1

### Accessories for push button stations

Description	Type Ref.	Unit MRP ₹	Std Pkg (nos.)
<b>Plastic Enclosures</b>			
1 way, Grey	3SB58 01-0AC3	378.-	1
2 way, Grey	3SB58 02-0AC3	318.-	1
3 way, Grey	3SB58 03-0AC3	337.-	1
4 way, Grey	3SB58 04-0AC3	734.-	1
6 way, Grey	3SB58 06-0AC3	1015.-	1
1 way, Yellow	3SB58 01-0AD3	378.-	1
<b>Metal Enclosures</b>			
1 way	3SB58 01-4AC3	750.-	1
2 way	3SB58 02-4AC3	817.-	1
3 way	3SB58 03-4AC3	1148.-	1
<b>Contact Block</b>			
Contact block for base mounting, 1NO	3SB54 200B	80.-	10
Contact block for base mounting, 1NC	3SB54 200C	80.-	10
<b>Illumination module BA9s lamp holder - Base Connection (For enclosures)</b>			
Lamp Holder with Lamp 110V AC/DC	3SB54 20-2PF0	111.-	10
Lamp Holder with Lamp 230V AC	3SB54 20-2PL0	111.-	10
<b>Inscription Labels (set of 11 labels)</b>			
Set of 11 labels: Start, Stop, On, OFF, Up, Down, Open, Close Forward, Reverse, Emergency Off	3SB59 01-3EA	158.-	10
<b>Blanking plug</b>			
Blanking plug	3SB5912-0BC	38.-	10

### Stock items



## Spares and Accessories

### Spares for Push button actuators

Description	Colour	Type Ref.	Unit MRP ₹	Std Pkg (nos.)	
Spare coloured discs for push button actuator	Normal	Red	3SB59 10-0AC	15.-	10
		Green	3SB59 10-0AE		10
		Blue	3SB59 10-0AF		10
		White	3SB59 10-0AG		10
		Yellow	3SB59 10-0AD		10
		Black	3SB59 10-0AB		10
Spare coloured discs for push button actuator	Raised	Red	3SB59 10-0BC	15.-	10
		Green	3SB59 10-0BE		10
		Blue	3SB59 10-0BF		10
		White	3SB59 10-0BG		10
		Yellow	3SB59 10-0BD		10
		Black	3SB59 10-0BB		10
Spare coloured discs for illuminated push button actuator	Normal	Red	3SB59 10-0CC	15.-	10
		Green	3SB59 10-0CE		10
		Amber	3SB59 10-0CR		10
		Blue	3SB59 10-0CF		10
		White	3SB59 10-0CG		10
		Yellow	3SB59 10-0CD		10
		Clear	3SB59 10-0CH		10
		Plastic front ring			3SB59 11-1BA
Plastic holder with screws		3SB59 12-0BA	29.-	10	

### Accessories

Description	Type Ref.	Unit MRP ₹	Std Pkg (nos.)	
Inscription plates	START	■ 3SB59 01-2EL	15.-	10
	STOP	■ 3SB59 01-2EK		10
	ON	■ 3SB59 01-2EB		10
	OFF	■ 3SB59 01-2EC		10
	UP	3SB59 01-2ED		10
	DOWN	3SB59 01-2EE		10
	FORWARD	3SB59 01-2EF		10
	SLOW	3SB59 01-2ES		10
	FAST	3SB59 01-2ER		10
	REVERSE	3SB59 01-2EG		10
	BLANK	3SB59 01-2AA		10
	TRIP	3SB59 01-2EA		10
Thrust cap for Push Buttons (for actuating middle module)	■ 3SB59 02-0AA	15.-	10	
Thrust pad for Selector Actuators (for actuating middle module)	■ 3SB59 12-0AN	15.-	10	
Adaptor plate for replacing 30 mm PB by 22 mm	■ 3SB59 21-0AE	15.-	10	
E-stop Yellow dia. 75 mm for Mushroom - Blank (Yellow contrast label)	3SB59 21-0AB	15.-	10	
E-stop Yellow dia. 75mm with "EMERGENCY STOP" printing	3SB59 21-0AD	15.-	10	
Grip for fixing BA9s lamp	■ 3SB59 02-2AD	15.-	10	
Protective Cap (IP-67) for	Normal	3SB59 02-0AK	23.-	10
	Raised	3SB59 02-0AN		
Metallic holder for front connection actuators (when used outside 3SB508 stations)	3SB59 11-1AA	38.-	10	

■ Stock items

### Spares for indicating lamps

Description	Type Ref.	Unit MRP ₹	Std Pkg (nos.)		
Lens for Indicating lamp	Red	3SB59 10-1PC	29.-	10	
	Green	3SB59 10-1PE		10	
	Amber	3SB59 10-1PR		10	
	Blue	3SB59 10-1PF		10	
	White	3SB59 10-1PG		10	
	Yellow	3SB59 10-1PD		10	
	Clear	3SB59 10-1PH		10	
	BA9s Filament lamp	24V/2W		3SB59 02-6C	29.-
130V/2.5W		3SB59 02-6D	10		
BA9s LED Lamp 24V AC/DC	Red	3SB59 02-3FK	83.-	10	
	Green	3SB59 02-3GK		10	
	Blue	3SB59 02-3JK		259.-	10
	Yellow	3SB59 02-3HK		83.-	10
Lens for illuminated twin push button	White	3SB59 12-0BB	15.-	10	
Tool for fitting actuators on metal enclosures	3SB59 02-2BX	1209.-	1		



## Open type limit switches - SICONT 3SE3



Angular roller lever



Normal roller lever



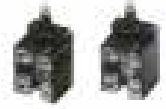
Crank lever



Over travel plunger



Push-rod



Open type

### Limit switches with 2 contacts (open type)

Actuator type	Contacts		Type	Unit MRP ₹	Std. pkg. (nos.)
	Arrangement	No. of contacts			
Push-rod and plastic protective cover	Normal	1NO + 1NC	■ 3SE3 020-0A	430.-	10
	Snap action		■ 3SE3 020-1A	490.-	10
	Overlapping		3SE3 020-3A	430.-	10

### Limit switches with 3 contacts (open type)

Actuator type	Contacts		Type	Unit MRP ₹	Std. pkg. (nos.)
	Arrangement	No. of contacts			
Push-rod and plastic protective cover	Normal	1NO + 2NC 2NO + 1NC	■ 3SE3 023-0A	760.-	10
			■ 3SE3 023-1A		
	Overlapping	1NO + 2NC 2NO + 1NC	3SE3 023-2A	760.-	10
			3SE3 023-3A		

## Oil tight limit switches (2/3/4 contacts) - SICONT 3SE3

### Limit switches with 2 contacts - In oil-tight die cast aluminium housing - IP67 (56mm width)

Actuator type	Contacts		56mm		
	Arrangement	No. of contacts	Type	Unit MRP ₹	Std. pkg. (nos.)
Push-rod	Normal	1NO + 1NC	■ 3SE3 100-0B	845.-	1
			■ 3SE3 100-1B		
			3SE3 100-3B		
Normal roller lever	Normal	1NO + 1NC	■ 3SE3 100-0E	905.-	1
			■ 3SE3 100-1E		
			3SE3 100-3E		
Angular roller lever	Normal	1NO + 1NC	3SE3 100-0F	900.-	1
			3SE3 100-1F		
			3SE3 100-3F		
Crank lever	Normal	1NO + 1NC	3SE3 100-0G	1350.-	1
			3SE3 100-1G		
			3SE3 100-3G		
Over travel plunger	Normal	1NO + 1NC	3SE3 100-0C	1050.-	1
			3SE3 100-1C		
			3SE3 100-3C		
Roller plunger	Normal	1NO + 1NC	3SE3 100-0D	1040.-	1
			3SE3 100-1D		
			3SE3 100-3D		
Adjustable length roller crank	Normal	1NO + 1NC	3SE3 100-0U	1395.-	1
			3SE3 100-1U		
			3SE3 100-3U		

### Limit switches with 2 contacts - In oil-tight die cast aluminium housing - IP67 (40mm width)

Actuator type	Contacts		40mm		
	Arrangement	No. of contacts	Type	Unit MRP ₹	Std. pkg. (nos.)
Push-rod	Normal	1NO + 1NC	3SE3 120-0B	805.-	1
			3SE3 120-1B		
Normal roller lever	Normal	1NO + 1NC	3SE3 120-0E	905.-	1
			3SE3 120-1E		
Angular roller lever	Normal	1NO + 1NC	3SE3 120-0F	850.-	1
			3SE3 120-1F		
Crank lever	Normal	1NO + 1NC	3SE3 120-0G	1270.-	1
			3SE3 120-1G		
Over travel plunger	Normal	1NO + 1NC	3SE3 120-0C	920.-	1
			3SE3 120-1C		
Roller plunger	Normal	1NO + 1NC	3SE3 120-0D	1155.-	1
			3SE3 120-1D		
Adjustable length roller crank	Normal	1NO + 1NC	3SE3 120-0U	1285.-	1
			3SE3 120-1U		

### Limit switches with 3 and 4 contacts - In oil-tight die cast aluminium housing - IP67 (56mm width)

Actuator type	Contacts		Type	Unit MRP ₹	Std. pkg. (nos.)
	Arrangement	No. of contacts			
Push-rod	Normal	1NO + 2NC 2NO + 1NC	3SE3 303-0B	980.-	5
			3SE3 303-1B		
	Normal	2NO + 2NC 2NO + 2NC	3SE3 404-0B	1200.-	5
			3SE3 404-1B		
Normal roller lever	Normal	1NO + 2NC 2NO + 1NC	3SE3 303-0E	1040.-	5
			3SE3 303-1E		
	Normal	2NO + 2NC 2NO + 2NC	3SE3 404-0E	1165.-	5
			3SE3 404-1E		
Angular roller lever	Normal	1NO + 2NC 2NO + 1NC	3SE3 303-0F	1145.-	5
			3SE3 303-1F		
	Normal	2NO + 2NC 2NO + 2NC	3SE3 404-0F	1355.-	5
			3SE3 404-1F		

■ Stock items

Please order in multiples of standard packing.



## Accessories for limit switches

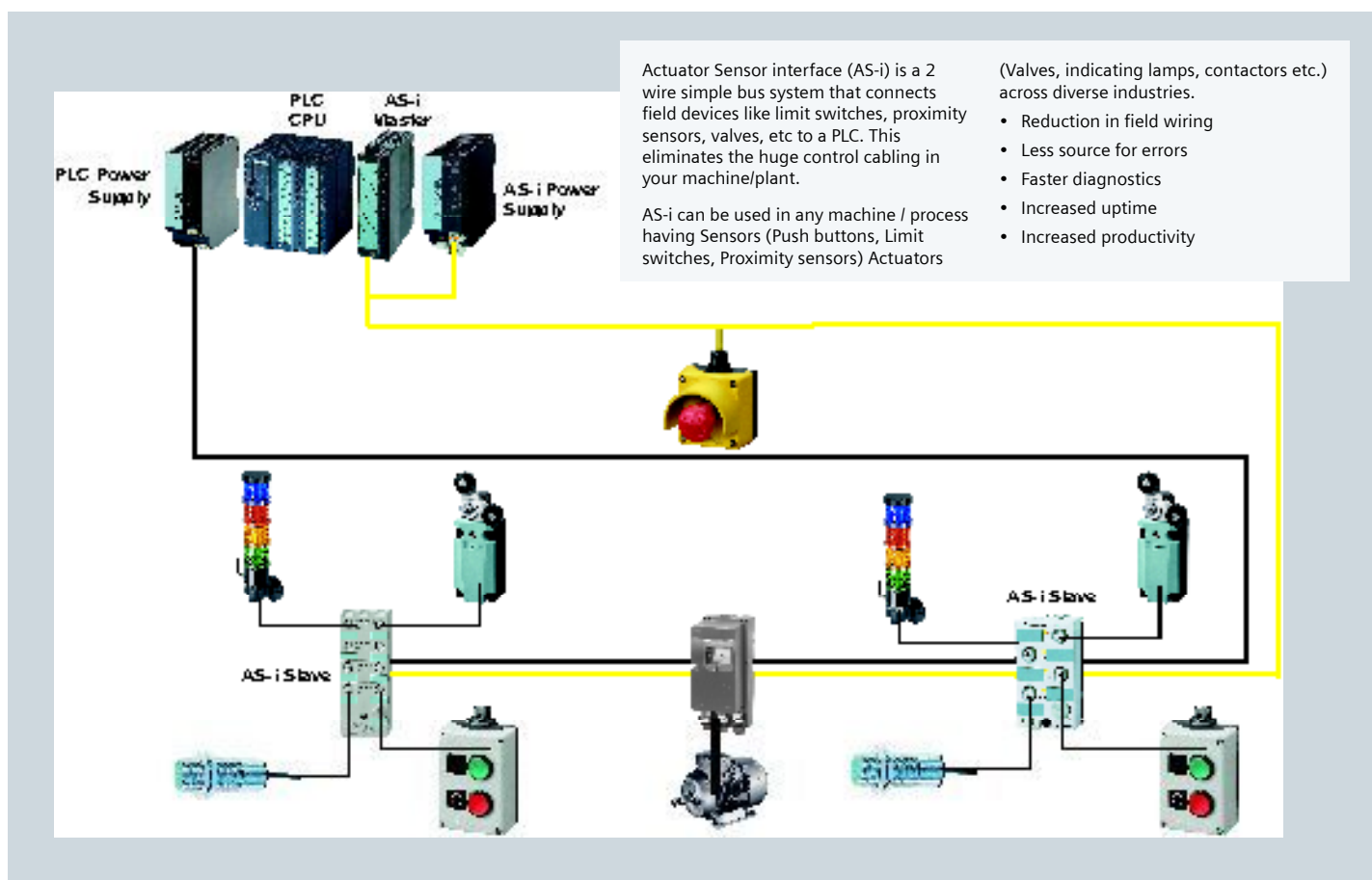
### Spares for 3SE3 100 and 3SE3 120 – actuators

Actuator type	For limit switch type	Type	Unit MRP ₹	Std. pkg. (nos.)
Push rod	3SE3 ....B	3SX3 100	385.-	5
Normal roller lever	3SE3 ....E	3SX3 102	425.-	5
Angular roller lever	3SE3 ....F	3SX3 104	435.-	5
Crank lever	3SE3 ....G	3SX3 110	255.-	5
Over travel plunger	3SE3 ....C	3SX3 106	435.-	5
Roller plunger	3SE3 ....D	3SX3 107	485.-	5
Adjustable roller crank lever	3SE3 ....U	3SX3 114	255.-	5
Operating head	3SE3 ....U 3SE3 ....G	3SX3 120	425.-	5

### Spares for 3SE3 100 and 3SE3 120 – contact blocks

Contact arrangement	Type	Unit MRP ₹	Std. pkg. (nos.)
Normal, 1NO + 1NC	3SE3 000-0A	450.-	10
Snap action, 1NO + 1NC	■ 3SE3 000-1A	490.-	10
Overlapping, 1NO + 1NC	3SE3 000-3A	450.-	10

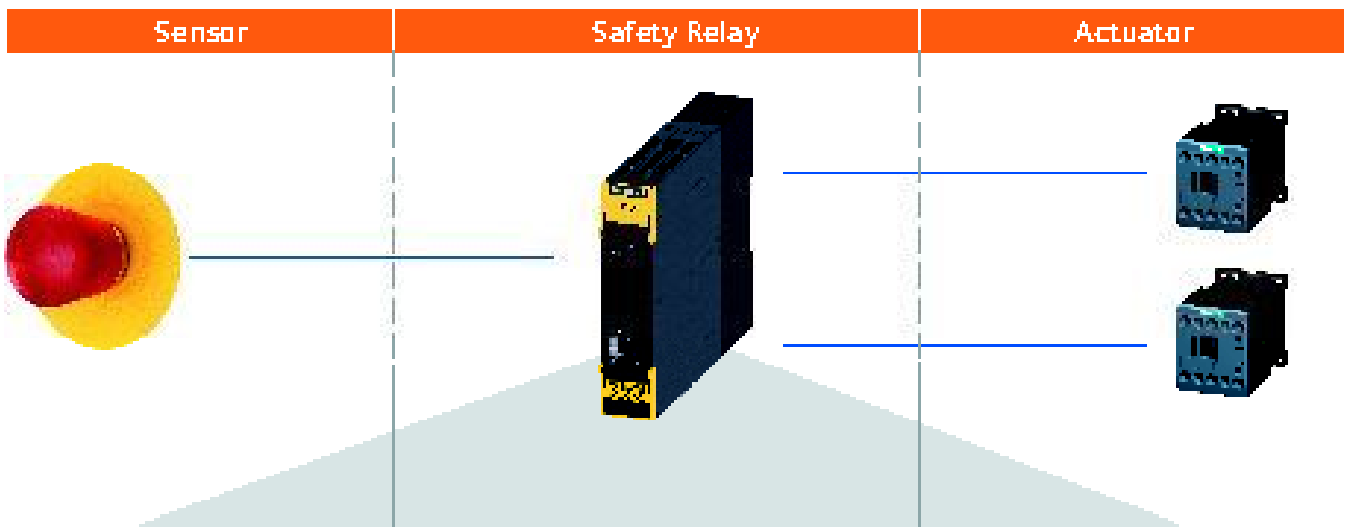
## Actuator-Sensor interface (AS-i)



■ Stock items

Please order in multiples of standard packing.

# Safety relays and systems



## Universal Safety Relay SIL3 / PL e

Rated control supply voltage	Adjustable off-delay time	Output Contacts			Type	Unit MRP ₹	Std. pkg. (nos.)
		NC (signalling)	NO	NO tv (Off delay)			
<b>Standard Basic Unit</b>							
24V AC/DC	-	1	3	-	3SK1 111-1AB30	16320.-	
110 - 240V AC/DC	-	1	3	-	3SK1 111-1AW20	Upon enquiry	
<b>Advanced Basic Unit</b>							
24V DC	0.05 ... 3 0.5 ... 30 5 ... 300	-	2	2	3SK1 122-1CB41 3SK1 122-1CB42 3SK1 122-1CB44	17870.- Upon enquiry Upon enquiry	



## Fuseless selection type 2, I<sub>q</sub> = 50kA, IS/IEC:60947-4-1 (3RV/3VL with 3RT & 3RU)

Suitable for IE2 motors

- The selection is valid only for complete Siemens combinations i.e. MPCB / MCCB + contactor + bi-relay (+timer)
- In case this combination is changed to accommodate another brand/rating of MPCB/MCCB/contactor/BMR, it shall be the responsibility of the person making such a change to assure Type 2 performance.
- Selection is for normal starting conditions with starting time ≤ 6 seconds. For heavy starting applications (e.g. ID/FD fans, reciprocating compressor, ball mills etc.), please consult Siemens.
- The electronic star-delta timer type 3RP should be used in star-delta feeders.
- Truly tested Type 2 combinations
- Low LCC = Low life cycle cost

### Direct-on-line feeder, for low LCC

SL motor		Circuit breaker <sup>§</sup>		Contactor		Bi-relay	
kW 415V, 3ph, 50/60 Hz	I <sub>L</sub> Amp	Type	Amp	Type	Amp	Type (60°C)	Set-Range Amp
0.37	1.1	3RV20 11-0KA10	1.25	3RT20 15-1AP01	7	#	0.9 - 1.25
0.55	1.5	3RV20 11-1AA10	1.6	3RT20 15-1AP01	7	#	1.1 - 1.6
0.75	1.9	3RV20 11-1BA10	2	3RT20 15-1AP01	7	#	1.4 - 2
1.1	2.7	3RV20 11-1DA10	3.2	3RT20 15-1AP01	7	#	2.2 - 3.2
1.5	3.6	3RV20 11-1EA10	4	3RT20 15-1AP01	7	#	2.8 - 4
2.2	5	3RV20 11-1GA10	6.3	3RT20 24-1AP00	12	#	4.5 - 6.3
3	6.5	3RV20 11-1HA10	8	3RT20 24-1AL20	12	#	5.5 - 8
4	8.5	3RV20 11-1JA10	10	3RT20 24-1AL20	12	#	7 - 10
5.5	11.5	3RV20 11-1KA10	12.5	3RT20 24-1AL20	12	#	9 - 12.5
7.5	15.5	3RV20 11-4AA10	16	3RT20 26-1AL20	25	#	11 - 16
11	22	3RV20 21-4DA10	25	3RT20 27-1AL20	32	#	20 - 25
15	29	3RV20 21-4EA10	32	3RT20 27-1AL20	32	#	27 - 32
18.5	34	3RV20 21-4FA10	40	3RT10 35-1AL20	40	#	28 - 40
22	40	3RV10 31-4HA10	50	3RT10 36-1AL20	50	#	40 - 50
30	53	3RV10 41-4JA10	63	3RT10 44-1AL20	65	#	45 - 63
37	65	3RV10 41-4KA10	75	3RT10 45-1AL20	80	#	57 - 75
45	78	3RV10 41-4LA10	90	3RT10 46-1AL20	95	#	70 - 90
55	96	3RV10 41-4MA10	100	3RT10 54-6LA06	115	#	80 - 100
55	96	3VL27 10-1DK36-0AA0	100	3RT10 54-6LA06	115	3RU11 46-4MB0	80 - 100
75	132	3VL27 16-1DK36-0AA0	160	3RT10 55-6LA06	150	3RU21 56-5DB10-8K	110 - 160
90	160	3VL37 25-1DK36-0AA0	250	3RT10 56-6LA06	185	3RU21 56-5EB10-8K	140 - 200
110	195	3VL37 25-1DK36-0AA0	250	3RT10 64-6LA06	225	3RU21 66-5FB10-8K	180 - 250
132	230	3VL37 25-1DK36-0AA0	250	3RT10 65-6LA06	265	3RU21 66-5FB10-8K	180 - 250
160	280	3VL47 31-1DK36-0AA0	315	3RT10 66-6LA06	300	3RU21 66-5GB10-8K	220 - 320
200	350	3VL57 50-1DK36-0AA0	500	3RT10 75-6LA06	400	3RU21 76-5HB10-8K	280 - 400
250	430	3VL57 50-1DK36-0AA0	500	3RT10 76-6LA06	500	3RU21 76-5JB10-8K	350 - 500

§ 3RV11 / 3RV21 'relay function' motor protection circuit-breaker can also be used in place of 3RV10 / 3RV20 motor protection circuit-breaker respectively

# 3RV10 comes with in-built overload protection, hence external bi-relay is eliminated

### Star-Delta feeder, for Low LCC

SL motor			Circuit breaker		Contactor line/delta		Contactor star		Bi-relay		Timer
kW 415V, 3ph, 50/60 Hz	I <sub>L</sub> Amp	I <sub>ph</sub> A	Type	Amp	Type	Amp	Type	Amp	Type (60°C)	Set-Range Amp	Type
5.5	11.5	6.5	3RV23 21-4AC10	16	3RT20 26-1AL20	25	3RT20 15-1AP01	7	3RU21 26-1HB0	5.5 - 8	3RP15
7.5	15.5	9.2	3RV23 21-4AC10	16	3RT20 26-1AL20	25	3RT20 15-1AP01	7	3RU21 26-1JB0	7 - 10	3RP15
11	22	12	3RV23 21-4DC10	25	3RT20 27-1AL20	32	3RT20 24-1AL20	12	3RU21 26-4AB0	11 - 16	3RP15
15	29	16.2	3RV23 21-4EC10	32	3RT20 27-1AL20	32	3RT20 24-1AL20	12	3RU21 26-4BB0	14 - 20	3RP15
18.5	34	19.7	3RV13 31-4FC10	40	3RT10 35-1AL20	40	3RT10 24-1AL20	12	3RU11 36-4DB0	18 - 25	3RP15
22	40	23.2	3RV13 31-4GC10	45	3RT10 36-1AL20	50	3RT10 26-1AL20	25	3RU11 36-4EB0	22 - 32	3RP15
30	53	30.6	3RV13 41-4JC10	63	3RT10 44-1AL20	65	3RT10 26-1AL20	25	3RU11 46-4FB0	28 - 40	3RP15
37	65	37.5	3RV13 41-4KC10	75	3RT10 44-1AL20	65	3RT10 34-1AL20	32	3RU11 46-4HB0	36 - 50	3RP15
45	78	45	3RV13 41-4LC10	90	3RT10 45-1AL20	80	3RT10 34-1AL20	32	3RU11 46-4JB0	45 - 63	3RP15
55	96	55.4	3RV13 41-4MC10	100	3RT10 54-6LA06	115	3RT10 44-1AL20	65	3RU11 46-4JB0	45 - 63	3RP15
55	96	55.4	3VL27 10-1DK36-0AA0	100	3RT10 54-6LA06	115	3RT10 44-1AL20	65	3RU11 46-4JB0	45 - 63	3RP15
75	131	75.6	3VL27 16-1DK36-0AA0	160	3RT10 55-6LA06	150	3RT10 44-1AL20	65	3RU11 46-4LB0	70 - 90	3RP15
90	156	90.1	3VL37 25-1DK36-0AA0	250	3RT10 56-6LA06	185	3RT10 44-1AL20	65	3RU11 46-4MB0	80 - 100	3RP15
110	195	113	3VL37 25-1DK36-0AA0	250	3RT10 64-6LA06	225	3RT10 54-6LA06	115	3RU21 56-5CB10-8K	90 - 125	3RP15
132	230	133	3VL37 25-1DK36-0AA0	250	3RT10 65-6LA06	265	3RT10 54-6LA06	115	3RU21 56-5DB10-8K	110 - 160	3RP15
160	280	162	3VL47 31-1DK36-0AA0	315	3RT10 66-6LA06	300	3RT10 54-6LA06	115	3RU21 56-5EB10-8K	140 - 200	3RP15
200	350	202	3VL57 50-1DK36-0AA0	500	3RT10 76-6LA06	500	3RT10 56-6LA06	185	3RU21 66-5FB10-8K	180 - 250	3RP15
250	430	248	3VL57 50-1DK36-0AA0	500	3RT10 76-6LA06	500	3RT10 65-6LA06	265	3RU21 66-5GB10-8K	220 - 320	3RP15

## Fuse protected selection type 2, I<sub>q</sub> = 50kA, IS/IEC:60947-4-1 (3KL with 3RT & 3RU)

Suitable for IE2 motors

- The selection is valid only for complete Siemens combinations i.e. SDF + DIN Fuse + Contactor + Bi-Relay (+ timer).
- In case this combination is changed to accommodate another brand/rating of SDF/DIN Fuse/Contactor/BMR, it shall be the responsibility of the person making such a change to assure type 2 performance.
- Selection is for **normal starting** conditions with starting time ≤ 6 seconds. (For **heavy starting** applications e.g. ID/FD fans, reciprocating compressor, ball mills etc., please consult Siemens.)
- The **electronic star-delta timer type 3RP** should be used in star-delta feeders.
- SDF: Switch Disconnecter Fuse. **All fuses are DIN HRC type.**
- Tested Type 2 combinations
- Low LCC = Low Life Cycle Cost

### Direct-on-line feeder, for Low LCC

SL Motor	Motor	SDF		HRC Fuse		Contactor		Bi-Relay	
kW 415V, 3ph, 50/60 Hz	I <sub>L</sub> Amp	Type	Amp	Type	Amp	Type	Amp	Type (60°C)	Set-Range Amp
0.37	1	3KL811	20	3NA78040RC	4	3RT20 15-1AP01	7	3RU21 16-0KB0	0.9 - 1.25
0.55	1.3	3KL811	20	3NA78040RC	4	3RT20 15-1AP01	7	3RU21 16-1AB0	1.1 - 1.6
0.75	1.9	3KL811	20	3NA78010RC	6	3RT20 15-1AP01	7	3RU21 16-1BB0	1.4 - 2
1.10	2.6	3KL811	20	3NA78010RC	6	3RT20 15-1AP01	7	3RU21 16-1DB0	2.2 - 3.2
1.50	3.7	3KL811	20	3NA78030RC	10	3RT20 15-1AP01	7	3RU21 16-1EB0	2.8 - 4
2.20	4.8	3KL811	20	3NA78050RC	16	3RT20 15-1AP01	7	3RU21 16-1GB0	4.5 - 6.3
3.7	7.8	3KL811	20	3NA78070RC	20	3RT20 23-1AL20	9	3RU21 26-1JB0	7 - 10
5.5	11.2	3KL812	32	3NA78100RC	25	3RT20 24-1AL20	12	3RU21 26-1KB0	9 - 12.5
7.5	16	3KL812	32	3NA78120RC	32	3RT20 25-1AL20	17	3RU21 26-4AB0	11 - 16
11	20.8	3KL815	63	3NA78200RC	50	3RT20 26-1AL20	25	3RU21 26-4DB0	20 - 25
15	28	3KL815	63	3NA78220RC	63	3RT20 27-1AL20	32	3RU21 26-4EB0	27 - 32
18.5	34	3KL815	63	3NA78220RC	63	3RT10 35-1AL20	40	3RU11 36-4FB0	28 - 40
22	40	3KL821	100	3NA78240RC	80	3RT10 36-1AL20	50	3RU11 36-4GB0	36 - 45
30	53	3KL821	100	3NA78300RC	100	3RT10 44-1AL20	65	3RU11 46-4JB0	45 - 63
37	65	3KL822	125	3NA78320RC	125	3RT10 45-1AL20	80	3RU11 46-4KB0	57 - 75
45	78	3KL822	125	3NA78320RC	125	3RT10 46-1AL20	95	3RU11 46-4LB0	70 - 90
55	96	3KL823	160	3NA78360RC	160	3RT10 54-6LA06	115	3RU11 46-4MB0	80 - 100
75	132	3KL831	200	3NA71400RC	200	3RT10 55-6LA06	150	3RU21 56-5DB10-8K	110 - 160
90	160	3KL832	250	3NA71440RC	250	3RT10 56-6LA06	185	3RU21 56-5EB10-8K	140 - 200
110	195	3KL832	250	3NA71440RC	250	3RT10 64-6LA06	225	3RU21 66-5FB10-8K	180 - 250
132	230	3KL833	315	3NA72520RC	315	3RT10 65-6LA06	265	3RU21 66-5FB10-8K	180 - 250
160	280	3KL834	400	3NA72600RC	400	3RT10 66-6LA06	300	3RU21 66-5GB10-8K	220 - 320
200	350	3KL841	500	3NA33650RC	500	3RT10 75-6LA06	400	3RU21 76-5HB10-8K	280 - 400
250	430	3KL841	500	3NA33650RC	500	3RT10 76-6LA06	500	3RU21 76-5JB10-8K	350 - 500

### Star-Delta feeder, for Low LCC

SL Motor	Motor		SDF		HRC Fuses		Contactor Line/Delta		Contactor Star		Bi-Relay		Timer
kW 415V, 3ph, 50/60Hz	I <sub>L</sub> Amp	I <sub>ph</sub> Amp	Type	Amp	Type	Amp	Type	Amp	Type	Amp	Type (60°C)	Set-Range Amp	Type
4	7.8	4.5	3KL811	20	3NA78030RC	10	3RT20 23-1AL20	9	3RT20 23-1AL20	9	3RU21 26-1FB0	3.5 - 5	3RP15
5.5	11.2	6.5	3KL811	20	3NA78050RC	16	3RT20 23-1AL20	9	3RT20 23-1AL20	9	3RU21 26-1HB0	5.5 - 8	3RP15
7.5	16	9.2	3KL811	20	3NA78070RC	20	3RT20 24-1AL20	12	3RT20 23-1AL20	9	3RU21 26-1JB0	7 - 10	3RP15
11	20.8	12	3KL812	32	3NA78100RC	25	3RT20 24-1AL20	12	3RT20 23-1AL20	9	3RU21 26-1KB0	9 - 12.5	3RP15
15	28	16.2	3KL812	32	3NA78120RC	32	3RT20 26-1AL20	25	3RT20 25-1AL20	17	3RU21 26-4BB0	14 - 20	3RP15
18.5	34	19.7	3KL815	63	3NA78200RC	50	3RT10 34-1AL20	32	3RT10 34-1AL20	32	3RU11 36-4BB0	14 - 20	3RP15
22	40	23.2	3KL815	63	3NA78200RC	50	3RT10 34-1AL20	32	3RT10 34-1AL20	32	3RU11 36-4DB0	18 - 25	3RP15
30	53	30.6	3KL815	63	3NA78220RC	63	3RT10 34-1AL20	32	3RT10 34-1AL20	32	3RU11 36-4EB0	22 - 32	3RP15
37	65	37.5	3KL821	100	3NA78240RC	80	3RT10 35-1AL20	40	3RT10 34-1AL20	32	3RU11 36-4FB0	28 - 40	3RP15
45	78	45	3KL821	100	3NA78300RC	100	3RT10 36-1AL20	50	3RT10 34-1AL20	32	3RU11 36-4HB0	40 - 50	3RP15
55	96	55.4	3KL821	100	3NA78300RC	100	3RT10 44-1AL20	65	3RT10 34-1AL20	32	3RU1146-4JB0	45 - 63	3RP15
75	131	75.6	3KL823	160	3NA78360RC	160	3RT10 45-1AL20	80	3RT10 44-1AL20	65	3RU11 46-4LB0	70 - 90	3RP15
90	156	90.1	3KL823	160	3NA78360RC	160	3RT10 46-1AL20	95	3RT10 44-1AL20	65	3RU11 46-4MB0	80 - 100	3RP15
110	195	113	3KL831	200	3NA71400RC	200	3RT10 54-6LA06	225	3RT10 54-6LA06	115	3RU21 56-5CB10-8K	90 - 125	3RP15
132	230	133	3KL832	250	3NA71440RC	250	3RT10 55-6LA06	265	3RT10 54-6LA06	115	3RU21 56-5DB10-8K	110 - 160	3RP15
160	280	162	3KL833	315	3NA72520RC	315	3RT10 56-6LA06	300	3RT10 54-6LA06	115	3RU21 56-5EB10-8K	140 - 200	3RP15
200	350	202	3KL834	400	3NA72600RC	400	3RT10 64-6LA06	500	3RT10 56-6LA06	185	3RU21 66-5FB10-8K	180 - 250	3RP15
250	430	248	3KL841	500	3NA33650RC	500	3RT10 65-6LA06	500	3RT10 65-6LA06	265	3RU21 66-5GB10-8K	220 - 320	3RP15

## Fuseless selection type 2, Iq = 50kA, IS/IEC:60947-4-1 (3RV/3VL with 3TF & 3UA)

Suitable for IE2 motors

- The selection is valid only for complete Siemens combinations i.e. MPCB / MCCB + contactor + bi-relay (+timer)
- In case this combination is changed to accommodate another brand/rating of MPCB/MCCB/contactor/BMR, it shall be the responsibility of the person making such a change to assure Type 2 performance.**
- Selection is for **normal starting** conditions with starting time  $\leq 6$  seconds. (For **heavy starting** applications e.g. ID/FD fans, reciprocating compressor, ball mills etc., please consult Siemens.)
- The electronic star-delta timer type 3RP should be used in star-delta feeders.**
- Truly tested Type 2 combinations at neutral authorities
- Low LCC = Low life cycle cost

### Direct-on-line feeder, for low LCC

SL motor		Circuit breaker		Contactor		Bi-relay	
kW 415V, 3ph, 50/60 Hz	I <sub>L</sub> Amp	Type	Amp	Type	Amp	Type (60°C)	Range (A)
0.37	1	3RV11 21-0KA10	1.25	3TF30	9	#	0.9 - 1.25
0.55	1.3	3RV11 21-1AA10	1.6	3TF30	9	#	1.1 - 1.6
0.75	1.9	3RV11 21-1BA10	2	3TF30	9	#	1.4 - 2
1.1	2.6	3RV11 21-1DA10	3.2	3TF31	12	#	2.2 - 3.2
1.5	3.7	3RV11 21-1EA10	4	3TF32	16	#	2.8 - 4
2.2	4.8	3RV11 21-1FA10	5	3TF32	16	#	3.5 - 5
3.7	7.8	3RV11 21-1HA10	8	3TF32	16	#	5.5 - 8
5.5	11.2	3RV11 21-1KA10	12.5	3TF34	32	#	9 - 12.5
7.5	16	3RV11 21-4BA10	20	3TF34	32	#	11 - 16
9.3	19	3RV11 21-4BA10	20	3TF34	32	#	14 - 20
11	20.8	3RV11 21-4CA10	22	3TF34	32	#	17 - 22
15	28	3RV11 31-4EA10	32	3TF35	38	#	22 - 32
18.5	34	3RV11 31-4FA10	40	3TF46	45	#	28 - 40
22	40	3RV11 31-4HA10	50	3TF48	75	#	36 - 45
30	53	3RV11 42-4JA10	63	3TF48	75	#	45 - 63
37	65	3RV11 42-4KA10	75	3TF50	110	#	57 - 75
45	78	3RV11 42-4LA10	90	3TF50	110	#	70 - 90
55	96	3RV11 42-4MA10	100	3TF52	170	#	80 - 100
75	131	3VL27 16-1DK36-0AA0	160	3TF52	170	3UA62 30-5A	85-135
90	156	3VL37 25-1DK36-0AA0	250	3TF53	205	3UA62 30-5B	115-180
110	189	3VL37 25-1DK36-0AA0	250	3TF53	205	3UA62 30-5C	160 - 250
132	227	3VL37 25-1DK36-0AA0	250	3TF54	250	3UA62 30-5C	160 - 250
160	271	3VL47 31-1DK36-0AA0	315	3TF55	300	3UA62 30-5D	200 - 320
200	339	3VL57 50-1DK36-0AA0	500	3TF57	475	3UA62 30-5E	250 - 400
250	398	3VL57 50-1DK36-0AA0	500	3TF57	475	3UA68 30-5F	320 - 500

# 3RV11 comes with integral relay function, hence external bi-relay is eliminated.

(3RV10 MPCB with 'standard release' can also be used.)

### Star-Delta feeder, for Low LCC

SL motor			Circuit breaker		Contactor line/delta		Contactor star		Bi-relay		Timer
kW 415V, 3ph, 50/60 Hz	I <sub>L</sub> Amp	I <sub>ph</sub> A	Type	Amp	Type	Amp	Type	Amp	Type (50°C)	Range (A)	Type
3.7	7.8	4.5	3RV13 21-1HC10	8	3TF32	16	3TF30	9	3UA52 00-1F	3.2 - 5	3RP15
5.5	11.2	6.5	3RV13 21-1KC10	12.5	3TF34	32	3TF30	9	3UA52 00-1H	5 - 8	3RP15
7.5	16	9.2	3RV13 21-4AC10	16	3TF34	32	3TF30	9	3UA52 00-1J	6.3 - 10	3RP15
9.3	19	11	3RV13 21-4CC10	22	3TF34	32	3TF30	9	3UA52 00-1K	8 - 12.5	3RP15
11	20.8	12	3RV13 21-4CC10	22	3TF34	32	3TF30	9	3UA52 00-1K	8 - 12.5	3RP15
15	28	16.2	3RV13 31-4EC10	32	3TF35	38	3TF32	16	3UA52 00-2B	12.5 - 20	3RP15
18.5	34	19.7	3RV13 31-4FC10	40	3TF46	45	3TF34	32	3UA52 00-2C	16 - 25	3RP15
22	40	23.2	3RV13 31-4GC10	45	3TF48	75	3TF34	32	3UA52 00-2C	16 - 25	3RP15
30	53	30.6	3RV13 41-4JC10	63	3TF48	75	3TF34	32	3UA55 00-2D	20 - 32	3RP15
37	65	37.5	3RV13 41-4KC10	75	3TF50	110	3TF34	32	3UA55 00-2R	32 - 40	3RP15
45	78	45	3RV13 41-4LC10	90	3TF50	110	3TF34	32	3UA55 00-8M	36 - 45	3RP15
55	96	55.4	3RV13 41-4MC10	100	3TF52	170	3TF34	32	3UA58 00-2TZ1	40 - 57	3RP15
75	131	75.6	3VL27 16-1DK36-0AA0	160	3TF52	170	3TF47	63	3UA58 00-8YZ1	70 - 95	3RP15
90	156	90.1	3VL37 25-1DK36-0AA0	250	3TF53	205	3TF47	63	3UA58 30-5B	70 - 95	3RP15
110	189	109	3VL37 25-1DK36-0AA0	250	3TF53	205	3TF50	110	3UA58 30-5D	95 - 120	3RP15
132	227	131.1	3VL37 25-1DK36-0AA0	250	3TF54	250	3TF50	110	3UA62 30-5B	115 - 180	3RP15
160	271	156.5	3VL47 31-1DK36-0AA0	315	3TF55	300	3TF50	110	3UA62 30-5B	115 - 180	3RP15
200	339	195.7	3VL57 50-1DK36-0AA0	500	3TF57	475	3TF52	170	3UA62 30-5C	160 - 250	3RP15
250	398	229.8	3VL57 50-1DK36-0AA0	500	3TF57	475	3TF54	250	3UA62 30-5D	160 - 250	3RP15

## Fuse protected selection type 2, I<sub>q</sub> = 50kA, IS/IEC:60947-4-1 (3KL with 3TF & 3UA)

Suitable for IE2 motors

- The selection is valid only for complete Siemens combinations i.e. SDF + DIN Fuse + Contactor + Bi-relay (+ timer).
- In case this combination is changed to accommodate another brand/rating of SDF/DIN Fuse/Contactor/BMR, it shall be the responsibility of the person making such a change to assure type 2 performance.**
- Selection is for **normal starting** conditions with starting time ≤ 6 seconds. (For **heavy starting** applications e.g. ID/FD fans, reciprocating compressor, ball mills etc., please consult Siemens.)
- At 60°C service temperature the bi-relay has to be derated. The bi-relay can be used upto the maximum current setting indicated. For example - A bi-relay with setting 32-50A, at 60°C can be used only upto 47A. This however does not mean that at 60°C, the 50A setting corresponds to 47A. It means that, the bi-relay should not be set beyond 47A.
- The electronic star-delta timer type 3RP should be used in star-delta feeders.**
- SDF: Switch Disconnecter Fuse. **All fuses are DIN HRC type.**
- Tested Type 2 combinations
- Low LCC = Low Life Cycle Cost

### Direct-on-line feeder, for Low LCC

SL Motor	Motor	SDF		HRC Fuse		Contactor		Bi-Relay		Bi-Relay	
kW 415V, 3ph, 50Hz	I <sub>L</sub> Amp	Type	Rating	Type	Amp	Type	Amp	Type (50°C)	Set-Range Amp	Type (60°C)	Available Set-Range Amp
0.37	1	3KL811	20	3NA78040RC	4	3TF30	9	3UA5000-0K	0.8 - 1.25	3UA5000-0K	0.8 - 1.17
0.55	1.3	3KL811	20	3NA78040RC	4	3TF30	9	3UA5000-1A	1 - 1.6	3UA5000-1A	1 - 1.5
0.75	1.9	3KL811	20	3NA78010RC	6	3TF30	9	3UA5000-1B	1.25 - 2	3UA5000-1C	1.6 - 2.3
1.1	2.6	3KL811	20	3NA78010RC	6	3TF30	9	3UA5000-1D	2 - 3.2	3UA5000-1D	2 - 3
1.5	3.7	3KL811	20	3NA78030RC	10	3TF30	9	3UA5000-1E	2.5 - 4	3UA5000-1E	2.5 - 3.7
2.2	4.8	3KL811	20	3NA78050RC	16	3TF30	9	3UA5000-1F	3.2 - 5	3UA5000-1G	4 - 5.9
3.7	7.8	3KL811	20	3NA78070RC	20	3TF30	9	3UA5000-1H	5 - 8	3UA5000-1J	6.3 - 9.4
5.5	11.2	3KL812	32	3NA78100RC	25	3TF31	12	3UA5000-1K	8 - 12.5	3UA5000-1K	8 - 11.7
7.5	16	3KL812	32	3NA78120RC	32	3TF32	16	3UA5200-2A	10 - 16	3UA5200-2B	12.5 - 18.7
9.3	19	3KL815	63	3NA78200RC	50	3TF34	32	3UA5500-2B	12.5 - 20	3UA5500-2C	16 - 23.4
11	20.8	3KL815	63	3NA78200RC	50	3TF34	32	3UA5500-2C	16 - 25	3UA5500-2C	16 - 23.4
15	28	3KL815	63	3NA78220RC	63	3TF34	32	3UA5500-2D	20 - 32	3UA5500-2D	20 - 30
18.5	34	3KL815	63	3NA78220RC	63	3TF35	38	3UA5500-2Q	25 - 36	3UA5500-2R	32 - 37.4
22	40	3KL821	100	3NA78240RC	80	3TF46	45	3UA5800-2FZ1	32 - 50	3UA5800-2FZ1	32 - 47
30	53	3KL821	100	3NA78300RC	100	3TF47	63	3UA5800-2TZ1	40 - 57	3UA5800-2PZ1	50 - 59
37	65	3KL822	125	3NA78320RC	125	3TF477	70	3UA5800-2VZ2	57 - 70	3UA5800-2VZ2	57 - 65.5
45	78	3KL822	125	3NA78320RC	125	3TF49	85	3UA5800-8YZ1	70 - 95	3UA5800-8YZ1	70 - 88.9
55	96	3KL823	160	3NA78360RC	160	3TF50	110	3UA5830-5C	85 - 105	3UA5830-5C	85 - 98.2
75	131	3KL831	200	3NA71400RC	200	3TF51	140	3UA6230-5A	85 - 135	3UA6230-5B	115 - 168
90	156	3KL832	250	3NA71440RC	250	3TF52	170	3UA6230-5B	115 - 180	3UA6230-5B	115 - 168
110	189	3KL832	250	3NA71440RC	250	3TF53	205	3UA6230-5C	160 - 250	3UA6230-5C	160 - 234
132	227	3KL833	315	3NA72520RC	315	3TF54	250	3UA6230-5C	160 - 250	3UA6230-5C	160 - 234
160	271	3KL834	400	3NA72600RC	400	3TF55	300	3UA6230-5D	200 - 320	3UA6230-5D	200 - 299
200	339	3KL841	500	3NA33650RC	500	3TF56	400	3UA6230-5E	250 - 400	3UA6230-5E	250 - 374
250	398	3KL841	500	3NA33650RC	500	3TF57	475	3UA6830-5F	320 - 500	3UA6830-5F	320 - 468

### Star-Delta feeder, for Low LCC

SL Motor	Motor		SDF		HRC Fuses		Contactor Line/Delta		Contactor Star		Bi-Relay		Bi-Relay		Timer
kW 415V, 3ph, 50Hz	I <sub>L</sub> Amp	I <sub>ph</sub> Amp	Type	Rating	Type	Amp	Type	Amp	Type	Amp	Type (50°C)	Set-Range Amp	Type (60°C)	Available Set-Range Amp	Type
3.7	7.8	4.5	3KL811	20	3NA78030RC	10	3TF30	9	3TF30	9	3UA5000-1F	3.2-5	3UA5000-1F	3.2-4.7	3RP15
5.5	11.2	6.5	3KL811	20	3NA78050RC	16	3TF30	9	3TF30	9	3UA5000-1H	5-8	3UA5000-1H	5-7.5	3RP15
7.5	16	9.2	3KL811	20	3NA78070RC	20	3TF31	12	3TF30	9	3UA5000-1J	6.3-10	3UA5000-1J	6.3-9.4	3RP15
9.3	19	11	3KL812	32	3NA78100RC	25	3TF31	12	3TF30	9	3UA5000-1K	8-12.5	3UA5000-1K	8-11.7	3RP15
11	20.8	12	3KL812	32	3NA78100RC	25	3TF31	12	3TF30	9	3UA5000-1K	8-12.5	3UA5000-2S	10-13.6	3RP15
15	28	16.2	3KL812	32	3NA78120RC	32	3TF33	22	3TF32	16	3UA5200-2B	12.5-20	3UA5200-2B	12.5-18.7	3RP15
18.5	34	19.7	3KL815	63	3NA78200RC	50	3TF34	32	3TF34	32	3UA5500-2B	12.5-20	3UA5500-2C	16-23.4	3RP15
22	40	23.2	3KL815	63	3NA78200RC	50	3TF34	32	3TF34	32	3UA5500-2C	16-25	3UA5500-2D	22-30	3RP15
30	53	30.6	3KL815	63	3NA78220RC	63	3TF34	32	3TF34	32	3UA5500-2D	20-32	3UA5500-2Q	25-33.7	3RP15
37	65	37.5	3KL821	100	3NA78240RC	80	3TF35	38	3TF34	32	3UA5500-2R	32-40	3UA5500-8M	36-45	3RP15
45	78	45	3KL821	100	3NA78300RC	100	3TF46	45	3TF34	32	3UA5800-2FZ1	32-50	3UA5800-2FZ1	32-47	3RP15
55	96	55.4	3KL821	100	3NA78300RC	100	3TF47	63	3TF34	32	3UA5800-2TZ1	40-57	3UA5800-2PZ1	50-59	3RP15
75	131	75.6	3KL823	160	3NA78360RC	160	3TF49	85	3TF47	63	3UA5800-8YZ1	70-95	3UA5800-8YZ1	70-88.9	3RP15
90	156	90.1	3KL823	160	3NA78360RC	160	3TF50	110	3TF47	63	3UA5830-5B	70-95	3UA5830-5C	85-98.2	3RP15
110	189	109	3KL831	200	3NA71400RC	200	3TF50	110	3TF50	110	3UA5830-5D	95-120	3UA5830-5D	95-112	3RP15
132	227	131.1	3KL832	250	3NA71440RC	250	3TF51	140	3TF50	110	3UA6230-5B	115-180	3UA6230-5B	115-168	3RP15
160	271	156.5	3KL833	315	3NA72520RC	315	3TF52	170	3TF50	110	3UA6230-5B	115-180	3UA6230-5B	115-168	3RP15
200	339	195.7	3KL834	400	3NA72600RC	400	3TF54	250	3TF52	170	3UA6230-5C	160-250	3UA6230-5C	160-234	3RP15
250	398	229.8	3KL841	500	3NA72600RC	400	3TF54	250	3TF54	250	3UA6230-5C	160-250	3UA6230-5D	200-299	3RP15

# Fuseless selection Iq = 50 kA, IS/IEC:60947-4-1 (3VT with 3RT & 3RU)

Suitable for IE2 motors

- The selection is valid only for complete Siemens combinations i.e MCCB + Contactor + Birelay mentioned below.
- **In case this combination is changed to accommodate another brand / rating of MCCB / contactor / birelay, it shall be the responsibility of the person making such a change to assure the coordination.**
- Selection is for normal starting conditions with starting time ≤ 6 seconds. (For heavy starting applications e.g. ID/FD fans, reciprocating compressor, ball mills etc., please consult Siemens.)
- MCCB protection setting should be maintained as per below chart.
- For charts with 3VT MCCB for ratings below 75kW, please consult Siemens.
- Recommended selection.

## Direct-on-line feeder

Sr No	kW 415V, 3ph, 50/60 Hz	Rated current IL (A)	Breaking Capacity Iq	Circuit Breaker				Bi-relay		Contactor	
				MCCB	Rated current In (A)	Overload Setting Ir (A)	S/C Setting .. X Ir	Type	Range (A)	Type	Amp
1	75	131	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	231	12.5 X Ir	3RU21 56-5DB10-8K	110 - 160	3RT1055	150
2	90	156	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	315	12.5 X Ir	3RU21 56-5EB10-8K	140 - 200	3RT1056	185
3	110	189	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	400	12.5 X Ir	3RU21 66-5FB10-8K	180 - 250	3RT1064	225
4	132	227	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	455	12.5 X Ir	3RU21 66-5GB10-8K	220 - 320	3RT1065	265
5	160	271	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	550	12.5 X Ir	3RU21 66-5GB10-8K	220 - 320	3RT1066	300
6	200	339	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	630	12.5 X Ir	3RU21 76-5HB10-8K	280 - 400	3RT1076	500
7	250	398	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	630	12.5 X Ir	3RU21 76-5JB10-8K	350 - 500	3RT1076	500

## Star-Delta feeder

Sr No	kW 415V, 3ph, 50/60 Hz	Rated current IL (A)	Phase Current Iph (A)	Breaking Capacity Iq	Circuit Breaker				Bi-relay		Contactor (Line/Delta)		Contactor (Star)	
					MCCB	Rated current In (A)	Overload Setting Ir (A)	S/C Setting .. X Ir	Type	Range (A)	Type	Amp	Type	Amp
1	75	131	75.6	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	200	12.5 X Ir	3RU11 46-4LB0	70 - 90	3RT1055	150	3RT1044	65
2	90	156	90.1	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	231	12.5 X Ir	3RU11 46-4MB0	80 - 100	3RT1056	185	3RT1044	65
3	110	189	109	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	290	12.5 X Ir	3RU21 56-5CB10-8K	90 - 125	3RT1064	225	3RT1054	115
4	132	227	131.1	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	345	12.5 X Ir	3RU21 56-5DB10-8K	110 - 160	3RT1065	265	3RT1054	115
5	160	271	156.5	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	400	12.5 X Ir	3RU21 56-5EB10-8K	140 - 200	3RT1066	300	3RT1054	115
6	200	339	195.7	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	500	12.5 X Ir	3RU21 56-5FB10-8K	180 - 250	3RT1076	500	3RT1056	185
7	250	398	229.8	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	575	12.5 X Ir	3RU21 56-5GB10-8K	220 - 320	3RT1076	500	3RT1065	265

Note: For ratings below 75kW, the SCPD is 3RV MPCB. Please refer page no. 68 for co-ordination chart.

## Fuseless selection Iq = 50 kA, IS/IEC:60947-4-1 (3VT with 3TF & 3UA)

Suitable for IE2 motors

- The selection is valid only for complete Siemens combinations i.e MCCB + Contactor + Bi-relay mentioned below.
- In case this combination is changed to accommodate another brand / rating of MCCB / contactor / bi-relay, it shall be the responsibility of the person making such a change to assure the coordination.**
- Selection is for normal starting conditions with starting time  $\leq 6$  seconds. (For heavy starting applications e.g. ID/FD fans, reciprocating compressor, ball mills etc., please consult Siemens.)
- MCCB protection setting should be maintained as per below chart.
- For charts with 3VT MCCB for ratings below 75kW, please consult Siemens.
- Recommended selection.

### Direct-on-line feeder

Sr No	kW 415V, 3ph, 50/60 Hz	Rated current IL (A)	Breaking Capacity Iq	Circuit Breaker				Bi-relay		Contactor	
				MCCB	Rated current In (A)	Overload Setting Ir (A)	S/C Setting .. X Ir	Type	Range (A)	Type	Amp
1	75	131	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	231	12.5 X Ir	3UA62 30-5A	85 - 135	3TF52	170
2	90	156	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	315	12.5 X Ir	3UA62 30-5B	115-180	3TF53	205
3	110	189	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	400	12.5 X Ir	3UA62 30-5C	160 - 250	3TF53	205
4	132	227	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	455	12.5 X Ir	3UA62 30-5C	160 - 250	3TF54	250
5	160	271	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	550	12.5 X Ir	3UA62 30-5D	200 - 320	3TF55	300
6	200	339	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	630	12.5 X Ir	3UA62 30-5E	250 - 400	3TF57	475
7	250	398	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	630	12.5 X Ir	3UA68 30-5F	320 - 500	3TF57	475

### Star-Delta feeder

Sr No	kW 415V, 3ph, 50/60 Hz	Rated current IL (A)	Phase Current Iph (A)	Breaking Capacity Iq	Circuit Breaker				Bi-relay		Contactor (Line/Delta)		Contactor (Star)	
					MCCB	Rated current In (A)	Overload Setting Ir (A)	S/C Setting .. X Ir	Type	Range (A)	Type	Amp	Type	Amp
1	75	131	75.6	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	200	12.5 X Ir	3UA58 00-8YZ1	70 - 95	3TF52	170	3TF47	63
2	90	156	90.1	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	231	12.5 X Ir	3UA58 30-5B	70 - 95	3TF53	205	3TF47	63
3	110	189	109	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	290	12.5 X Ir	3UA58 30-5D	95 - 120	3TF53	205	3TF50	110
4	132	227	131.1	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	345	12.5 X Ir	3UA62 30-5B	115 - 180	3TF54	250	3TF50	110
5	160	271	156.5	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	400	12.5 X Ir	3UA62 30-5B	115 - 180	3TF55	300	3TF50	110
6	200	339	195.7	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	500	12.5 X Ir	3UA62 30-5C	160 - 250	3TF57	475	3TF52	170
7	250	398	229.8	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	575	12.5 X Ir	3UA62 30-5D	160 - 250	3TF57	475	3TF54	250

Note: For ratings below 75kW, the SCPD is 3RV MPCB. Please refer page no. 70 for co-ordination chart.



## Fuseless selection type 2, Iq = 50kA, IS/IEC:60947-4-1 (3VU with 3TF and 3UA)

Suitable for IE2 motors

- The selection\* is valid only for complete Siemens combinations i.e MPCB + Contactor mentioned above.
- In case this combination is changed to accommodate another brand / rating of MPCB / Contactor , it shall be the responsibility of the person making such a change to assure the coordination.
- Selection is for normal starting conditions with starting time ≤ 6 seconds. For heavy starting applications, please consult Siemens.
- This is recommended selection, test certificates for the same can't be provided.

### Direct-on-line feeder

Motor					MPCB			Contactor	
Sl. No.	kW	HP	I <sub>L</sub> (Amp.)	I <sub>q</sub> (KA)	Type	Rating (Amp.)	Range (Amp.)	Type	Rating (Amp.)
1	0.37	0.5	1	100	3VU1340-1MF00	1	0.6 - 1.0	3TF30	9
2	0.55	0.75	1.3	100	3VU1340-1MG00	1.6	1 - 1.6	3TF30	9
3	0.75	1	1.9	100	3VU1340-1MH00	2.4	1.6 - 2.4	3TF30	9
4	1.1	1.5	2.6	100	3VU1340-1NH00	3.2	2 - 3.2	3TF30	9
5	1.5	2	3.7	100	3VU1340-1MJ00	4	2.4 - 4	3TF30	9
6	2.2	3	4.8	100	3VU1340-1NJ00	5	3.2 - 5	3TF30	9
7	3.7	5	7.8	10 <sup>^</sup>	3VU1340-1NK00	8	5 - 8	3TF30	9
8	5.5	7.5	11.2	6 <sup>^</sup>	3VU1340-1NL00	13	8 - 13	3TF31	12
9	7.5	10	16	6 <sup>^</sup>	3VU1340-1MM00	16	10 - 16	3TF32	16
10	9.3	12.5	19	6 <sup>^</sup>	3VU1340-1MN00	20	14 - 20	3TF33	22
11	11	15	20.8	6 <sup>^</sup>	3VU1340-1MP00	25	18 - 25	3TF33	22
12	15	20	28	35	3VU1640-1MP00	32	22 - 32	3TF34	32
13	18.5	25	34	35	3VU1640-1MQ00	40	28 - 40	3TF35	38
14	22	30	40	35	3VU1640-1MR00	52	36 - 52	3TF46	45

\* At Siemens, technical development is a continuous process; subject to change without prior notice.

^ Breaking capacity can be increased to 50KA using current limiter

### Star-Delta feeder

Motor						MPCB			Contactor: Line/Delta		Contactor: Star		Bi-Relay	
Sl. No.	kW	HP	I <sub>L</sub> (Amp.)	I <sub>PH</sub> (Amp.)	I <sub>q</sub> (KA)	Type	Rating (Amp.)	Range (Amp.)	Type	Rating (Amp.)	Type	Rating (Amp.)	Type	Range (Amp.)
1	2.2	3	4.8	2.8	100	3VU1340-1MK00	6	4 - 6	3TF30	9	3TF30	9	3UA50 00-1E	2.5 - 4
2	3.7	5	7.8	4.5	10 <sup>^</sup>	3VU1340-1ML00	10	6 - 10	3TF30	9	3TF30	9	3UA50 00-1F	3.2 - 5
3	5.5	7.5	11.2	6.5	6 <sup>^</sup>	3VU1340-1MM00	16	10 - 16	3TF30	9	3TF30	9	3UA50 00-1H	5 - 8
4	7.5	10	16	9.3	6 <sup>^</sup>	3VU1340-1MM00	16	10 - 16	3TF31	12	3TF30	9	3UA50 00-1J	6.3 - 10
5	9.3	12.5	19	11	6 <sup>^</sup>	3VU1340-1MP00	25	18 - 25	3TF31	12	3TF30	9	3UA50 00-1K	8 - 12.5
6	11	15	20.8	12.1	6 <sup>^</sup>	3VU1340-1MP00	25	18 - 25	3TF32	16	3TF30	9	3UA52 00-1K	8 - 12.5
7	15	20	28	16.2	35	3VU1640-1MP00	32	22 - 32	3TF33	22	3TF32	16	3UA52 00-2B	12.5 - 20
8	18.5	25	34	19.7	35	3VU1640-1MQ00	40	28 - 40	3TF33	22	3TF32	16	3UA52 00-2C	16 - 25
9	22	30	40	23.2	35	3VU1640-1MR00	52	36 - 52	3TF34	32	3TF32	16	3UA55 00-2C	16 - 25

\* At Siemens, technical development is a continuous process; subject to change without prior notice.

^ Breaking capacity can be increased to 50KA using current limiter

## Available till stocks last

### Contacting Relay - 3RH1 (Size S00) (Auxiliary Contactor)

Size	Operational current I <sub>e</sub> AC-15 at 230V A	Contacts NO	Contacts NC	AC Coil <sup>§</sup>			DC Coil <sup>@</sup>		
				Type	Unit MRP ₹	Std. pkg. (nos.)	Type	Unit MRP ₹	Std. pkg. (nos.)
S00	6	4	-	3RH11 40-1A..0	1230.-	1	3RH11 40-1B..0	1685.-	1
		3	1	3RH11 31-1A..0		1	3RH11 31-1B..0		1
		2	2	3RH11 22-1A..0		1	3RH11 22-1B..0		1

<sup>§@</sup> Please enter coil codes from table below

### Power Contactors - 3RT1 (Size S00)

Size	AC-3 operational current I <sub>e</sub> upto 415V A	Motor rating at 415V, 50Hz kW	Auxiliary contacts	AC Coil <sup>§</sup>			DC Coil <sup>@</sup>		
				Type	Unit MRP ₹	Std. pkg. (nos.)	Type	Unit MRP ₹	Std. pkg. (nos.)
S00	7	3	1NO	3RT10 15-1A..1	1050.-	1	3RT10 15-1B..1	1540.-	1
			1NC	3RT10 15-1A..2		1	3RT10 15-1B..2		1
	9	4	1NO	3RT10 16-1A..1	1110.-	1	3RT10 16-1B..1	1610.-	1
			1NC	3RT10 16-1A..2		1	3RT10 16-1B..2		1
	12	5.5	1NO	3RT10 17-1A..1	1245.-	1	3RT10 17-1B..1	1870.-	1
			1NC	3RT10 17-1A..2		1	3RT10 17-1B..2		1

<sup>§@</sup> Please enter coil codes from table below

#### <sup>§</sup> AC coil voltage

Code	B0	F0	P0	V0
Coil voltage 50/60 Hz	24	110	230	400

#### <sup>@</sup> DC coil voltage

Code	B4	F4	M4
Coil voltage	24	110	220

Please refer table below for auxiliary contact blocks

### Accessories for 3RT1 Contactors, 3RH1 Auxiliary Contactors (Size S00)

#### Auxiliary Contact Blocks (S00)

				Type	Unit MRP ₹	Std. pkg. (nos.)
--	--	--	--	------	---------------	---------------------

2- or 4-pole auxiliary switch blocks for assembling contactors with 3 and 5 auxiliary contacts

Size S00

2	-	-	-	3RH19 11-1FA20	320.-	1
1	1	-	-	3RH19 11-1FA11		1
-	2	-	-	3RH19 11-1FA02		1
4	-	-	-	3RH19 11-1FA40	580.-	1
3	1	-	-	3RH19 11-1FA31		1
2	2	-	-	3RH19 11-1FA22		1
-	-	2	2	3RH19 11-1FC22	875.-	1
1	1	1	1	3RH19 11-1FB22		1

1 pole auxiliary switch blocks. Cable entry from above

1	-	-	-	3RH19 11-1AA10	225.-	10
-	1	-	-	3RH19 11-1AA01		10

# Delayed actuation

For auxiliary contact blocks with hard gold plated contacts for use in dusty atmosphere please contact nearest sales office.

### Latched Contactor Relays - 3RH14 (S00)

Rated operational current I <sub>e</sub> AC-15 at 230V A	Contacts NO	Contacts NC	AC Coil				DC Coil			
			Rated control supply voltage U <sub>s</sub> at 50/60Hz V AC	Type	Unit MRP ₹	Std. pkg. (nos.)	Rated control supply voltage U <sub>s</sub> V DC	Type	Unit MRP ₹	Std. pkg. (nos.)
6	4	-	24	3RH14 40-1AB00	4215.-	1	24	3RH14 40-1BB40	5505.-	1
			110	3RH14 40-1AF00		1	110	3RH14 40-1BF40		1
			230	3RH14 40-1AP00		1	220	3RH14 40-1BM40		1
	3	1	24	3RH14 31-1AB00		1	24	3RH14 31-1BB40		1
			110	3RH14 31-1AF00		1	110	3RH14 31-1BF40		1
			230	3RH14 31-1AP00		1	220	3RH14 31-1BM40		1
	2	2	24	3RH14 22-1AB00		1	24	3RH14 22-1BB40		1
			110	3RH14 22-1AF00		1	110	3RH14 22-1BF40		1
			230	3RH14 22-1AP00		1	220	3RH14 22-1BM40		1

For Latched Power Contactors refer 3RT accessory "Mechanical Latching Blocks" page no. 20

## Available till stocks last

### Low power consumption coil contactors

#### Auxiliary Contactor - 3RH11 Coupling Relays

Rated control supply voltage  $U_s = 24$  V DC, Coil operating range 0.7 to 1.25 $U_s$

Power Consumption of the coils 2.3W at 24V DC (No auxiliary contacts can be mounted)

Size	Surge Suppressors	Rated operational current $I_e$ AC-15/AC-14 at 230 V A	Auxiliary contacts		Type	Unit MRP ₹	Std. pkg. (nos.)
			NO	NC			
S00	Built in Varistor	6	4	-	3RH11 40-1KB40	2010.-	1
			3	1	3RH11 31-1KB40		1
			2	2	3RH11 22-1KB40		1
	Built in Diode		4	-	3RH11 40-1JB40		1
			3	1	3RH11 31-1JB40		1
			2	2	3RH11 22-1JB40		1

#### Power Contactors - 3RT10 coupling relays (interface), for switching motors, 3Pole 3.... 11kW

Rated control supply voltage  $U_s = 24$  V DC, Coil operating range 0.7 to 1.25 $U_s$

Power Consumption of the coils 2.3W at 24V DC (No auxiliary contacts can be mounted)

Size	Surge Suppressors	AC-2 & AC-3 Operational Current $I_e$ upto 415V A	Rating of induction motor at 50 Hz and 415V	Auxiliary contacts		Type	Unit MRP ₹	Std. pkg. (nos.)
				NO	NC			
S00	Built in Varistors	7	3	1	-	3RT10 15-1KB41	1880.-	1
				-	1	3RT10 15-1KB42		1
		9	4	1	-	3RT10 16-1KB41	2050.-	1
				-	1	3RT10 16-1KB42		1
		12	5.5	1	-	3RT10 17-1KB41	2140.-	1
				-	1	3RT10 17-1KB42		1
	Built in Diode	7	3	1	-	3RT10 15-1JB41	1880.-	1
				-	1	3RT10 15-1JB42		1
		9	4	1	-	3RT10 16-1JB41	2050.-	1
				-	1	3RT10 16-1JB42		1
		12	5.5	1	-	3RT10 17-1JB41	2140.-	1
				-	1	3RT10 17-1JB42		1

Rated control supply voltage  $U_s = 24$  V DC, Coil operating range 0.7 to 1.25 $U_s$

Power Consumption of the coils 4.2W at 24V DC (2 single pole auxiliary contacts can be mounted)

Size	Surge Suppressors	AC-2 & AC-3 Operational Current $I_e$ upto 415V A	Rating of induction motor at 50 Hz and 415V	Auxiliary contacts		Type	Unit MRP ₹	Std. pkg. (nos.)
				NO	NC			
S0	Varistor mounted	12	5.5	-	-	3RT10 24-1KB40	2435.-	1
		17	7.5	-	-	3RT10 25-1KB40	2840.-	1
		25	11	-	-	3RT10 26-1KB40	4780.-	1

### Power Contactors - 3RT1 (Size S0,S2)

Size	AC-3 operational current $I_e$ upto 415V A	Motor rating at 415V, 50Hz kW	Auxiliary contacts	AC Coil <sup>§</sup>			DC Coil <sup>@</sup>		
				Type	Unit MRP ₹	Std. pkg. (nos.)	Type	Unit MRP ₹	Std. pkg. (nos.)
S0	9	4	-	3RT10 23-1A..0	950.-	1	3RT10 23-1B..0	1725.-	1
	12	5.5	-	3RT10 24-1A..0	1090.-	1	3RT10 24-1B..0	1885.-	1
	17	7.5	-	3RT10 25-1A..0	1285.-	1	3RT10 25-1B..0	2285.-	1
	25	11	-	3RT10 26-1A..0	1715.-	1	3RT10 26-1B..0	3055.-	1
S2	32	15	-	3RT10 34-1A..0	3750.-	1	3RT10 34-1B..0	7025.-	1
	40	18.5	-	3RT10 35-1A..0	6035.-	1	3RT10 35-1B..0	8230.-	1

<sup>§@</sup> Please enter coil codes from table below

#### <sup>§</sup> AC coil voltage

Coil code	C2	G2	L2	V0 <sup>1)</sup>
Coil voltage (50/60 Hz)	24	110	230	400

#### <sup>@</sup> DC coil voltage

Coil code	B4	F4	M4
Coil voltage	24	110	220

<sup>1)</sup> Supply frequency for 400V coil voltages 50Hz only

## Available till stocks last

### 2NO+2NC Power Contactors - 3RT15

Size	AC-1 rating operational current I <sub>e</sub> upto 415V A	AC Coil <sup>2)</sup>			DC Coil <sup>4)</sup>		
		Type	Unit MRP ₹	Std. pkg. (nos.)	Type	Unit MRP ₹	Std. pkg. (nos.)
S00	18	3RT15 16-1A..0	1745.-	1	3RT15 16-1B..0	2270.-	1
	22	3RT15 17-1A..0	2045.-	1	3RT15 17-1B..0	3355.-	1
S0	40	3RT15 26-1A..0	3455.-	1	3RT15 26-1B..0	6250.-	1

2) AC coil voltage - Please enter coil codes from table below

Code	B0	F0	P0	V0 <sup>3)</sup>
Coil voltage (V) (50/60 Hz)	24	110	230	400

3) Supply frequency for 400V coil 50Hz only.

4) DC coil voltage

Code	B4	F4	M4
Coil voltage (V)	24	110	220

4) Please refer page 35 for auxiliary contact blocks

### 4 pole contactors - 3RT13

For incomer / changeover applications with 4NO main contacts with AC coils, w/o aux. contacts

Contactor size	Rated current I <sub>e</sub> (A) AC1, 415V	Type <sup>2)</sup>	Unit MRP ₹	Std. pkg. (nos.)
00	18	3RT13 16-1A..0	1515.-	1
00	22	3RT13 17-1A..0	1650.-	1

Higher ratings upto 1000A and corresponding AC3 ratings available Upon enquiry

### Reversing contactor Assemblies - 3RA13

Size	AC-3 operational current I <sub>e</sub> upto 415V A	Motor rating at 415V, 50Hz kW	AC Coil				DC Coil			
			Rated control supply voltage U <sub>s</sub> at 50/60Hz V AC	Type	Unit MRP ₹	Std. pkg. (nos.)	Rated control supply voltage U <sub>s</sub> V DC	Type	Unit MRP ₹	Std. pkg. (nos.)
S00	7	3	110	3RA13 15-8XB30-1AF0	3515.-	1	24	3RA13 15-8XB30-1BB4	4570.-	1
			230	3RA13 15-8XB30-1AP0						
	9	4	110	3RA13 16-8XB30-1AF0	3700.-	1	24	3RA13 16-8XB30-1BB4	4945.-	1
			230	3RA13 16-8XB30-1AP0						
	12	5.5	110	3RA13 17-8XB30-1AF0	3880.-	1				
			230	3RA13 17-8XB30-1AP0						
S0	12	5.5	110	3RA13 24-8XB30-1AG2	4160.-	1	24	3RA13 24-8XB30-1BB4	5520.-	1
			230	3RA13 24-8XB30-1AL2						
	17	7.5	110	3RA13 25-8XB30-1AG2	4710.-	1	24	3RA13 25-8XB30-1BB4	6525.-	1
			230	3RA13 25-8XB30-1AL2						
	25	11	110	3RA13 26-8XB30-1AG2	5535.-	1	24	3RA13 26-8XB30-1BB4	8955.-	1
			230	3RA13 26-8XB30-1AL2						
S2	32	15	110	3RA13 34-8XB30-1AG2	11640.-	1	24	3RA13 34-8XB30-1BB4	18265.-	1
			230	3RA13 34-8XB30-1AL2						
	40	18.5	110	3RA13 35-8XB30-1AG2	16445.-	1	24	3RA13 35-8XB30-1BB4	21810.-	1
			230	3RA13 35-8XB30-1AL2						

Reversing contactor assembly are also available as "ready to assemble kit". Please refer pages 23 & 24.

### Star Delta Contactor Assemblies - 3RA14

Size	AC-3 operational current I <sub>e</sub> upto 415V A	Motor rating at 415V, 50Hz kW	AC Coil				DC Coil			
			Rated control supply voltage U <sub>s</sub> at 50/60Hz <sup>1)</sup> V AC	Type	Unit MRP ₹	Std. pkg. (nos.)	Rated control supply voltage U <sub>s</sub> V DC	Type	Unit MRP ₹	Std. pkg. (nos.)
S00-S00-S00	12	5.5	230	3RA14 15-8XB31-1AP0	7210.-	1	24	3RA14 15-8XB31-1BB4	9875.-	1
	17	7.5	230	3RA14 16-8XB31-1AP0	7760.-	1	24	3RA14 16-8XB31-1BB4	10260.-	1
S0-S0-S0	25	11	230	3RA14 23-8XC21-1AL2	8130.-	1	24	3RA14 23-8XC21-1BB4	10440.-	1
	32/40	15/18.5	230	3RA14 25-8XC21-1AL2	9975.-	1	24	3RA14 25-8XC21-1BB4	15665.-	1

Star delta contactor assembly are also available as "ready to assemble kit". Please refer pages 30 & 31.

## Available till stocks last

### 3RA1 Load Feeders

#### Direct On-Line Starters

For snapping onto standard mounting rails or for screw mounting

**Link modules, single-unit packaging** – For mechanical and electrical connection between contactor and motor protection circuit-breaker with screw terminals

Method of operation	Size of contactor	Size of MPCB	Type	Unit MRP ₹	Std. pkg. (nos.)
AC/DC	S00	S00	3RA19 11-1AA00	335.-	1
	S00	S0	3RA19 21-1DA00		1
AC	S0	S0	3RA19 21-1AA00		1
DC	S0	S0	3RA19 21-1BA00		1

#### Direct On-Line Starters

For busbar systems

**Link modules, single-unit packaging** – For mechanical and electrical connection between contactor and motor protection circuit-breaker with screw terminals

Method of operation	Size of contactor	Size of MPCB	Type	Unit MRP ₹	Std. pkg. (nos.)
AC/DC	S00	S00	3RA19 11-1AA00	335.-	1
	S00	S0	3RA19 21-1DA00		1
AC	S0	S0	3RA19 21-1AA00		1
DC	S0	S0	3RA19 21-1BA00		1

#### Busbar Adaptor

Size of MPCB	Size of contactor	Version of busbar adaptor	Busbar center to center clearance mm	Type of busbar adaptor	Unit MRP ₹	Std. pkg. (nos.)
S00, S0	S00, S0	45mm wide, 182mm long for busbars	40	8US10 51-5DM07	2530.-	1
			60	8US12 51-5DM07	3370.-	1

#### Device holders (busbar adaptors without infeed wires)

Size of MPCB	Size of contactor	Version of busbar adaptor	Busbar center to center clearance mm	Type of busbar adaptor	Unit MRP ₹	Std. pkg. (nos.)
S00, S0	S00, S0	45 mm wide, 182 mm long for busbars	40	8US10 50-5AM00	835.-	1
			60	8US12 50-5AM00	1345.-	1
S0	S0	55 mm wide, 182 mm long for busbars	40	8US10 60-5AM00	1690.-	1
			60	8US12 60-5AM00	2530.-	1

#### Reversing Starters

For snapping onto standard mounting rails or for screw mounting.

**Link modules, single-unit packaging** – For mechanical and electrical connection between contactor and motor protection circuit-breaker with screw terminals

Method of operation	Size of contactor	Size of MPCB	Type	Unit MRP ₹	Std. pkg. (nos.)
AC/DC	S00	S00	3RA19 11-1AA00	335.-	1
AC	S0	S0	3RA19 21-1AA00		1
DC	S0	S0	3RA19 21-1BA00		1

#### Standard mounting rail adaptor

Size of MPCB	Size of contactor	Type	Unit MRP ₹	Std. pkg. (nos.)
S00, S0	S00, S0	3RA19 22-1AA00	865.-	1

#### Assembly kit

Size of MPCB	Size of contactor	Assembly kit consists of wiring kit, standard mounting rail adapter, side module	Unit MRP ₹	Std. pkg. (nos.)
S0	S0	3RA19 23-1B	2075.-	1

## Capacitor duty contactors - 3RT16

For switching capacitor banks with AC coils

Capacitor kVAR	Aux. contacts	AC Coil voltage	Type	Unit MRP ₹	Std. pkg. (nos.)
28 - 50 kVAR	1 NO	110V	3RT16 47-1AF01	16835.-	1
		230V	3RT16 47-1AP01		
		400V	3RT16 47-1AV01		



## Available till stocks last

### Accessories for 3RT1 / 3RH1 Contactors (Size S00)

#### Surge suppressors

Version	AC Operation		DC Operation		Type	Unit MRP ₹	Std. pkg. (nos.)
	Rated control supply voltage (U <sub>c</sub> )						
	V AC	V DC	V AC	V DC			
Varistors (with LED)	24 ... 48	12 ... 24	24 ... 48	12 ... 24	3RT19 16-1JJ00	525.-	1
	48 ... 127	24 ... 70	48 ... 127	24 ... 70	3RT19 16-1JK00		1
	127 ... 240	70 ... 150	127 ... 240	70 ... 150	3RT19 16-1JL00		1
	–	150 ... 250	–	150 ... 250	3RT19 16-1JP00		1
RC Elements	24 ... 48	24 ... 70	24 ... 48	24 ... 70	3RT19 16-1CB00		1
	48 ... 127	70 ... 150	48 ... 127	70 ... 150	3RT19 16-1CC00		1
	127 ... 240	150 ... 250	127 ... 240	150 ... 250	3RT19 16-1CD00		1
Diode Assemblies	–	12 ... 250	–	12 ... 250	3RT19 16-1EH00		1
Diode with LED	–	24 ... 70	–	24 ... 70	3RT19 16-1LM00		1
Additional load module	180 ... 255	–	–	–	3RT19 16-1GA00		1

#### Sealable Covers

Size	Type	Unit MRP* ₹	Std. pkg. (nos.)
S00	3RT19 16-4MA10	145.-	5

\* The MRP mentioned is for 1 unit

#### Solid state timer block – for snapping onto the front

Function	Auxiliary contacts	Rated control supply voltage U <sub>c</sub> 50/60 Hz V	Time setting range t		Type	Unit MRP ₹	Std. pkg. (nos.)
			Sec	Sec			
<b>On-Delay</b> (Varistor integrated)	1NO + 1NC	24 AC/DC	0.05 ... 1	0.05 ... 1	3RT19 16-2EJ11	1660.-	1
			0.5 ... 10	0.5 ... 10	3RT19 16-2EJ21		1
		24 ... 66 AC/DC	0.5 ... 10	0.5 ... 10	3RT19 16-2CG21	1805.-	1
			5 ... 100	5 ... 100	3RT19 16-2EJ31		1
		100 ... 127 AC	0.05 ... 1	0.05 ... 1	3RT19 16-2EC11	1660.-	1
			0.5 ... 10	0.5 ... 10	3RT19 16-2EC21		1
			5 ... 100	5 ... 100	3RT19 16-2EC31		1
			0.05 ... 1	0.05 ... 1	3RT19 16-2ED11		1
		200 ... 240 AC	0.5 ... 10	0.5 ... 10	3RT19 16-2ED21	1	
			5 ... 100	5 ... 100	3RT19 16-2ED31	1	
0.05 ... 1	0.05 ... 1		3RT19 16-2FJ11	1975.-	1		
0.5 ... 10	0.5 ... 10		3RT19 16-2FJ21		1		
5 ... 100	5 ... 100	3RT19 16-2FJ31	1				
100 ... 127 AC/DC	0.05 ... 1	0.05 ... 1	3RT19 16-2FK11		1		
	0.5 ... 10	0.5 ... 10	3RT19 16-2FK21		1		
	5 ... 100	5 ... 100	3RT19 16-2FK31		1		
200 ... 240 AC/DC	0.05 ... 1	0.05 ... 1	3RT19 16-2FL11		1		
	0.5 ... 10	0.5 ... 10	3RT19 16-2FL21		1		
	5 ... 100	5 ... 100	3RT19 16-2FL31		1		
<b>OFF-Delay</b> <u>with</u> auxiliary voltage (Varistor integrated)	1 CO	24 AC/DC	0.5 ... 10		0.5 ... 10	3RT19 16-2LJ21	1820.-
		100 ... 127 AC	0.5 ... 10	0.5 ... 10	3RT19 16-2LC21	1	
		200 ... 240 AC	0.5 ... 10	0.5 ... 10	3RT19 16-2LD21	1	
<b>Star-Delta</b> (Varistor integrated)	1 NO Delayed + 1 NO Instantaneous Dead time - 50 ms	24 AC/DC	1.5 ... 30	1.5 ... 30	3RT19 16-2GJ51	1	
		100 ... 127 AC	1.5 ... 30	1.5 ... 30	3RT19 16-2GC51	1	
		200 ... 240 AC	1.5 ... 30	1.5 ... 30	3RT19 16-2GD51	1	

## Available till stocks last

### Microprocessor based overload relay - 3RB20 and 3RB21

#### 3RB20 (Class 10)

With overload, phase failure and phase unbalance protections

Size	Current setting range A	Type	Unit MRP ₹	Accessory for separate mounting	Unit MRP ₹	Std. pkg. (nos.)
S00	0.1 to 0.4A	3RB20 16-1RB0	3750.-	3RB29 13-0AA1	480.-	1
	0.32 to 1.25A	3RB20 16-1NB0				
	1 to 4A	3RB20 16-1PB0				
	3 to 12A	3RB20 16-1SB0				

#### 3RB21 (Class 5 to 30 – Settable)

With Overload, phase failure, phase unbalance, and earth fault protections

Size	Current setting range A	Type	Unit MRP ₹	Accessory for separate mounting	Unit MRP ₹	Std. pkg. (nos.)
S00	0.1 to 0.4A	3RB21 13-4RB0	7705.-	3RB29 13-0AA1	480.-	1
	0.32 to 1.25A	3RB21 13-4NB0				
	1 to 4A	3RB21 13-4PB0				
	3 to 12A	3RB21 13-4SB0				

### Thermal Overload Relays - 3RU11 (S00, S0)

#### Direct Mounting - Class 10

Size of relay / contactor	Rating for induction motor Rated value kW	Set current value of the inverse-time delayed overload release A	Type	Unit MRP ₹	Std. pkg. (nos.)
S00	0.04	0.11 ... 0.16	3RU11 16-0AB0	1600.-	1
	0.06	0.14 ... 0.2	3RU11 16-0BB0		1
	0.06	0.18 ... 0.25	3RU11 16-0CB0		1
	0.09	0.22 ... 0.32	3RU11 16-0DB0		1
	0.09	0.28 ... 0.4	3RU11 16-0EB0		1
	0.12	0.35 ... 0.5	3RU11 16-0FB0		1
	0.18	0.45 ... 0.63	3RU11 16-0GB0		1
	0.18	0.55 ... 0.8	3RU11 16-0HB0		1
	0.25	0.7 ... 1	3RU11 16-0JB0		1
	0.37	0.9 ... 1.25	3RU11 16-0KB0		1
	0.55	1.1 ... 1.6	3RU11 16-1AB0		1
	0.75	1.4 ... 2	3RU11 16-1BB0		1
	0.75	1.8 ... 2.5	3RU11 16-1CB0		1
	1.1	2.2 ... 3.2	3RU11 16-1DB0		1
	1.5	2.8 ... 4	3RU11 16-1EB0		1
	1.5	3.5 ... 5	3RU11 16-1FB0		1
	2.2	4.5 ... 6.3	3RU11 16-1GB0		1
3	5.5 ... 8	3RU11 16-1HB0	1		
4	7 ... 10	3RU11 16-1JB0	1		
5.5	9 ... 12	3RU11 16-1KB0	1		

#### Direct Mounting - Class 10

Size of relay / contactor	Rating for induction motor Rated value kW	Set current value of the inverse-time delayed overload release A	Type	Unit MRP ₹	Std. pkg. (nos.)
S0	0.75	1.8 ... 2.5	3RU11 26-1CB0	1860.-	1
	1.1	2.2 ... 3.2	3RU11 26-1DB0		1
	1.5	2.8 ... 4	3RU11 26-1EB0		1
	1.5	3.5 ... 5	3RU11 26-1FB0		1
	2.2	4.5 ... 6.3	3RU11 26-1GB0		1
	3	5.5 ... 8	3RU11 26-1HB0	1870.-	1
	4	7 ... 10	3RU11 26-1JB0		1
	5.5	9 ... 12.5	3RU11 26-1KB0		1
	7.5	11 ... 16	3RU11 26-4AB0	1960.-	1
	7.5	14 ... 20	3RU11 26-4BB0		1
	11	17 ... 22	3RU11 26-4CB0		1
	11	20 ... 25	3RU11 26-4DB0		1

### Accessory for independent mounting

For size of relay	Type	Unit MRP ₹	Std. pkg. (nos.)
S00	3RU19 16-3AA01	290.-	1
S0	3RU19 26-3AA01	330.-	1

## Available till stocks last

### Motor protection circuit breakers - 3RV1 (S00, S0)

#### MPCBs for motor and plant protection upto 100kA

MPCB Size	MPCB rated current A	MPCB overload range A	Type <sup>1)</sup>	Unit MRP ₹	Std. pkg. (nos.)
S00	0.16	0.11-0.16	3RV10 11-0AA10	3790.-	1
	0.25	0.18-0.25	3RV10 11-0CA10		1
	0.4	0.28-0.4	3RV10 11-0EA10		1
	0.63	0.45-0.63	3RV10 11-0GA10	4280.-	1
	1	0.7-1	3RV10 11-0JA10		1
	1.6	1.1-1.6	3RV10 11-1AA10		1
	2.5	1.8-2.5	3RV10 11-1CA10		1
	4	2.8-4	3RV10 11-1EA10	4545.-	1
	6.3	4.5-6.3	3RV10 11-1GA10		1
	10	7-10	3RV10 11-1JA10	4860.-	1
	12	9-12	3RV10 11-1KA10	5205.-	1

#### MPCB's for motor and plant protection upto 100kA

MPCB specifications			MPCB with standard release <sup>1)</sup>		MPCB with 'mag only' release <sup>2)</sup>		MPCB with "relay function" <sup>3)</sup>		Std. pkg. (nos.)
MPCB size	MPCB rated current A	MPCB overload range A	Type	Unit MRP ₹	Type	Unit MRP ₹	Type	Unit MRP ₹	
S0	0.16	0.11 - 0.16	3RV10 21-0AA10	5150.-	3RV13 21-0AC10	5055.-	3RV11 21-0AA10	6700.-	1
	0.2	0.14 - 0.2	3RV10 21-0BA10		3RV13 21-0BC10		3RV11 21-0BA10		1
	0.25	0.18 - 0.25	3RV10 21-0CA10		3RV13 21-0CC10		3RV11 21-0CA10		1
	0.32	0.22 - 0.32	3RV10 21-0DA10		3RV13 21-0DC10		3RV11 21-0DA10		1
	0.4	0.28 - 0.4	3RV10 21-0EA10		3RV13 21-0EC10		3RV11 21-0EA10		1
	0.5	0.35 - 0.5	3RV10 21-0FA10		3RV13 21-0FC10		3RV11 21-0FA10		1
	0.63	0.45 - 0.63	3RV10 21-0GA10		3RV13 21-0GC10		3RV11 21-0GA10		1
	0.8	0.55 - 0.8	3RV10 21-0HA10		3RV13 21-0HC10		3RV11 21-0HA10		1
	1	0.7 - 1	3RV10 21-0JA10		3RV13 21-0JC10		3RV11 21-0JA10		1
	1.25	0.9 - 1.25	3RV10 21-0KA10		3RV13 21-0KC10		3RV11 21-0KA10		1
	1.6	1.1 - 1.6	3RV10 21-1AA10		3RV13 21-1AC10		3RV11 21-1AA10		1
	2	1.4 - 2	3RV10 21-1BA10	3RV13 21-1BC10	3RV11 21-1BA10	1			
	2.5	1.8 - 2.5	3RV10 21-1CA10	3RV13 21-1CC10	3RV11 21-1CA10	1			
	3.2	2.2 - 3.2	3RV10 21-1DA10	3RV13 21-1DC10	3RV11 21-1DA10	1			
	4	2.8 - 4	3RV10 21-1EA10	3RV13 21-1EC10	3RV11 21-1EA10	1			
	5	3.5 - 5	3RV10 21-1FA10	3RV13 21-1FC10	3RV11 21-1FA10	1			
	6.3	4.5 - 6.3	3RV10 21-1GA10	3RV13 21-1GC10	3RV11 21-1GA10	1			
	8	5.5 - 8	3RV10 21-1HA10	3RV13 21-1HC10	3RV11 21-1HA10	1			
	10	7 - 10	3RV10 21-1JA10	3RV13 21-1JC10	3RV11 21-1JA10	1			
	12.5	9 - 12.5	3RV10 21-1KA10	3RV13 21-1KC10	3RV11 21-1KA10	1			
	16	11 - 16	3RV10 21-4AA10	3RV13 21-4AC10	3RV11 21-4AA10	1			
	20	14 - 20	3RV10 21-4BA10	3RV13 21-4BC10	3RV11 21-4BA10	1			
	22	17 - 22	3RV10 21-4CA10	3RV13 21-4CC10	3RV11 21-4CA10	1			
	25	20 - 25	3RV10 21-4DA10	3RV13 21-4DC10	3RV11 21-4DA10	1			

<sup>1)</sup> MPCB trips on S/C and also on O/L.

<sup>2)</sup> MPCB trips on S/C.

<sup>3)</sup> MPCB trips on S/C and opens contactor on O/L.

For mountable accessories for 3RV1 (S00, S0), please refer page 52.

## Equivalent chart: SIRIUS 3RT to 3TF

SICOP - 3TF				SIRIUS - 3RT				
Size	AC-3 rating 415V 50Hz	Bi-relay Type	Contactur Type	Contactur Type	Bi-relay Type	AC-3 rating 415V 50Hz	Size	
0	9	3UR50	3TF 30	3RT20 23	3RU21 26	9	0	
	12		3TF 31	3RT20 24		12		
1	18	3UR52	3TF 32	3RT20 25		17		
	25		3TF 33	3RT20 26		25		
2	32	3UR55	3TF 34	3RT20 27		32		
	40		3TF 35	3RT20 28		40		
3	45	3UR5800	3TF 46	3RT10 36	3RU11 36	50	2	
	65		3TF 47, 3TF 477	3RT10 44	3RU11 46	65	3	
4	75		3TF 48	3RT10 45		80		
	85		3TF 49	3RT10 46		95		
6	110		3UR5830	3TF 50	3RT10 54	Independent Mounting	115	6
	140		Independent Mounting	3TF 51	3RT10 55		150	
8	170	3TF 52		3RT10 56	185			
	205	3TF 53		3RT10 64	225		10	
10	250	3TF 54		3RT10 65	265			
	300	3TF 55		3RT10 66	300			
12	400	3TF 56		3RT10 75	400	12		
	475	3TF 57	3RT10 76	500				

## Equivalent list of Bi-relay for independent mounting: 3UR - 3RU21

SICOP Current range	SICOP	SIRIUS Current range	SIRIUS
85 - 135	3UR62 30-5A A00-0AA7	70 - 100	3RU21 56-5BB10-8K*
		90 - 125	3RU21 56-5CB10-8K*
115 - 180	3UR62 30-5B A00-0AA7	110 - 160	3RU21 56-5DB10-8K*
		140 - 200	3RU21 56-5EB10-8K*
160 - 250	3UR62 30-5C A00-0AA7	140 - 200	3RU21 66-5EB10-8K
		180 - 250	3RU21 66-5FB10-8K
200 - 320	3UR62 30-5D A00-0AA7	220 - 320	3RU21 66-5GB10-8K
250 - 400	3UR62 30-5E A00-0AA7	280 - 400	3RU21 76-5HB10-8K
350 - 500	3UR62 30-5F A00-0AA7	350 - 500	3RU21 76-5JB10-8K

\* Applicable for independent mounting with Busbars. For independent mounting with Straight through transformers, please change 10th letter from B to W

## Equivalent chart: 3TK28 - 3SK1

3TK	Dimension (mm)	3SK	Dimension (mm)
3TK2820-1AJ20	(22.5 x 103.6 x 118)	3SK1111-1AW20	(22.5 x 100 x 121.7)
3TK2820-1AL20	(22.5 x 103.6 x 118)	3SK1111-1AW20	(22.5 x 100 x 121.7)
3TK2820-1CB20	(22.5 x 103.6 x 118)	3SK1111-1AB30	(22.5 x 100 x 121.7)

## Discontinued products

### Capacitor duty contactors - 3TF

For switching capacitor banks with AC coils

Capacitor kVAR 415V, 3ph, 50Hz	Aux. contacts	Type <sup>4)</sup>
4 - 7 kVAR	1 NO	3TF30 10-0W....†
7.5 - 10 kVAR	1 NO	3TF31 10-0W....†
11 - 15 kVAR	–	3TF32 00-0W....†
16 - 25 kVAR	–	3TF34 00-0W....†

† Facility to add one contact block of 1NO / 1NC

<sup>4)</sup> AC coil voltage (wide band) - Please enter coil codes from table below

	For 3TF3 contactors		
Code	W110	W220	W415
Coil voltage (V) (50Hz)	70-140	150-280	260-460

### Semi-automatic starter in S.S. housing, incl. birelay with SPP

Motor rating at 415V, 3ph, 50Hz		Type <sup>3)</sup> (SASD)	Relay range A
HP	kW		
12.5	9.3	3TS02 90-0A.75	8-12.5
15	11	3TS02 90-0A.77	10-16
20	15	3TS02 90-0A.78	12.5-20
25	18.5	3TS02 90-0A.79	16-25

<sup>3)</sup> Enter code for coil voltage, 50Hz (D for 230-400V, W for 415V)

### Spares for 3TF capacitor duty contactors

#### Spare coils

Spare coils for	Type	Coil voltage
3TF30/31/32	3TY7 403-0AW220	150 - 280 V
	3TY7 403-0AW415	260 - 460 V
3TF34	3TY7 443-0AW220	150 - 280 V
	3TY7 443-0AW415	260 - 460 V

### Thermal overload relays - 3UR

#### 3UR62 30 individual mounting

Current setting range A	Type
85 - 135	3UR62 30-5A A00-0AA7
115 - 180	3UR62 30-5B A00-0AA7
160 - 250	3UR62 30-5C A00-0AA7
200 - 320	3UR62 30-5D A00-0AA7
250 - 400	3UR62 30-5E A00-0AA7
320 - 500	3UR68 30-5F A00-0AA7
400 - 630	3UR68 30-5G A00-0AA7

### Mushroom Actuators (with plastic front ring) for Emergency Stop Specifications

Description	Colour	Type Ref.
Mushroom actuator (40 mm ø) push to trip, pull to release	Red	3SB50 00-0VC01

#### Spare SIREC pre-charge resistors

Resistors for	Type
3TF30 (set of 3)	3TY7 300-0W
3TF31 (set of 3)	3TY7 310-0W
3TF32 (set of 3)	3TY7 320-0W
3TF34 (set of 6)	3TY7 340-0W

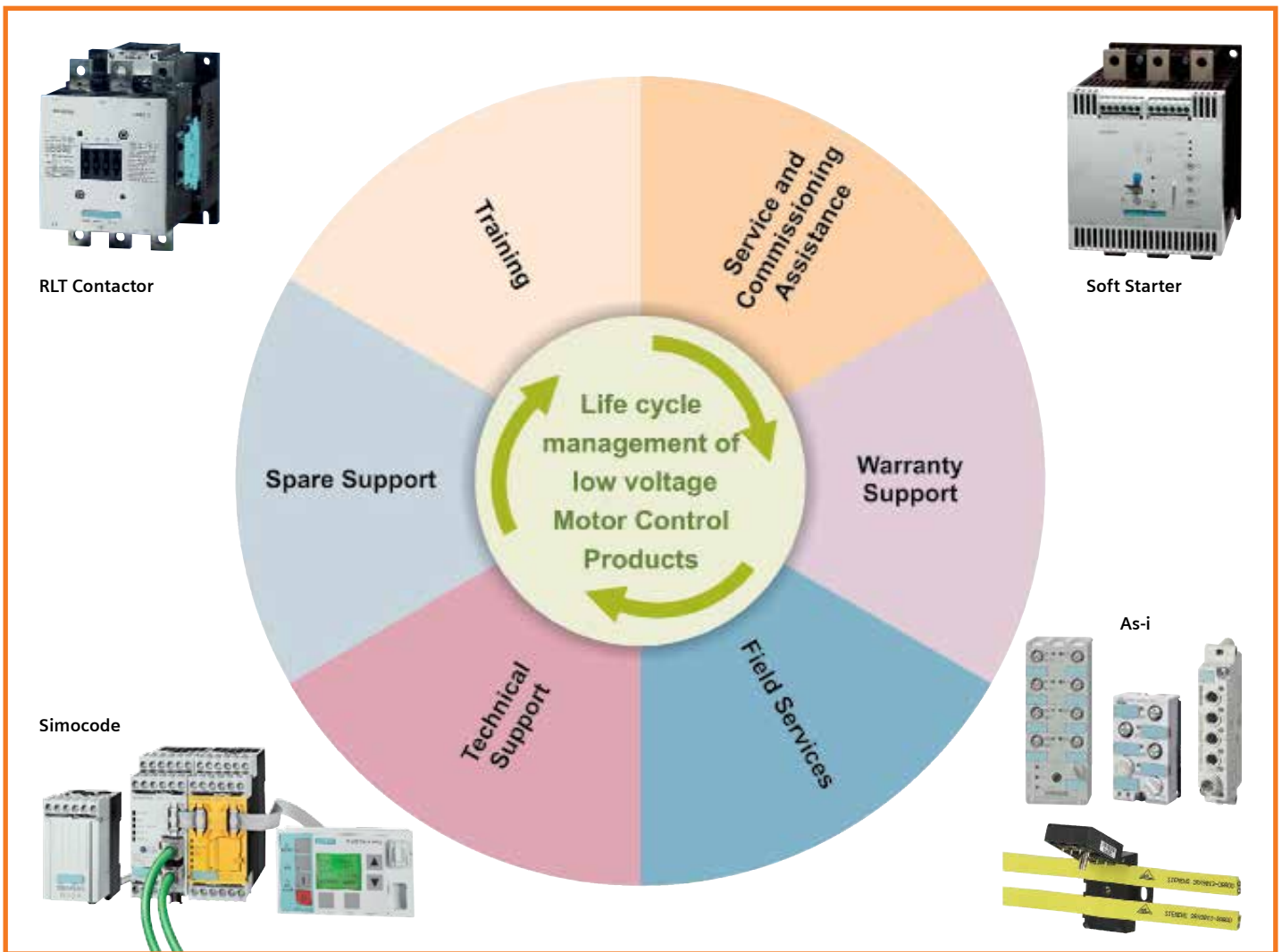


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### Note

- This supercedes all previous Price Lists
- MRPs mentioned in this publication are max. recommended selling MRPs.
- For receiving material in factory sealed packing, we request you to order in multiples of the indicated standard packing quantity.
- Siemens has stopped supplying 3TA contactors and 3UA19 relays. Please replace 3TA/3UA19 by SIRIUS contactors and relays. Spare contact kits / AC coils for 3TA contactors continue to be supplied by Siemens.

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<b>Training Programmes on Automation Products</b>		
SIMATIC S7-200	AS 200	5
SIMATIC S7-1200 with STEP7 V13	AS 1200	4
SIMATIC S7-300 Basic with STEP7 V5.5	AS 300	8
SIMATIC S7-400 Basic with STEP7 V5.5	AS 400	8
SIMATIC S7-300/400 Advance with STEP7 V5.5	AS 410	6
Networking on Profibus/Profinet with STEP7 V5.5	AS 900	5
SIMATIC WinCC Basic V7	AS 600	5
SIMATIC WinCC Advance V7	AS 610	3
SIMATIC HMI Panels with WinCC Flexible	AS 620	3
DCS: SIMATIC PCS 7 Basic	AS 700	10
DCS: SIMATIC PCS 7 Advanced	AS 710	10
SIMATIC Distributed (Machine Safety) course	AS 800	3
SIMATIC Fail-safe (Process Safety) course	AS 810	3
Simatic S5 (Exclusivly on Demand)	AS 500	4
Simatic S7 GRAPH Exclusivly on Demand)	AS 310	3
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Simatic PCS-7 BATCH	AS 730	5
Simatic PCS-7 CEMAT	AS 740	5
SIMATIC Industrial Identification	AS910	2
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<b>Training Programmes on Drive Products</b>		
Basic course on AC/DC Drives	DR-100	5
Basic AC-Drives with MM4 Maintenance	DR-MM4	5
AC Drive: Masterdrives Vector Control	DR-MDVC	6
Masterdrives MC	DR-MDMC	6

Title	Course Code	Days
SIMOTION - System and Programming	DR 110	8
SINAMICS S120	DRS 20	6
SINAMICS G130 / G150	DR 130	6
Drives for Crane Control Application	DR 300	5
DC Drive: SIMOREG DC Master 6RA70	DR 700	6
DC Drive: SINAMICS DC Master 6RA80	DR 710	6
SINAMICS G120	DR G20	4
MV Drive - Perfect Harmony (at Siemens Nashik)	DR 999	5
SINAMICS V50	DR 500	3
Combined course on AC/DC Operator	DR 800	6
Mobility-25KVA rail Coach Inverter	MO 100	3
<b>Training Programmes on LV Switchgear Products</b>		
LV Switchgear products & Maintenance	CP 100	4
LV Power Distribution Systems	BT 100	2
Communication Solution in Power Distribution	BT 150	2
SIRIUS Soft Starter	CP 200	2
SIMOCODE AC-Motor control	CP 400	2
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AC Motor Basics & Maintenance	IM 100	3
JOINT SIMOCODE WITH ASI	CP 410	3
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SIMATIC S7-400 Basic with STEP7 V5.5	AS 400	8
SIMATIC S7-300/400 Advance with STEP7 V5.5	AS 410	6
Networking on Profibus/Profinet with STEP7 V5.5	AS 900	5
SIMATIC WinCC Basic V7	AS 600	5
SIMATIC WinCC Advance V7	AS 610	3
SIMATIC HMI Panels with WinCC Flexible	AS 620	3
DCS: SIMATIC PCS 7 Basic	AS 700	10
DCS: SIMATIC PCS 7 Advanced	AS 710	10
SIMATIC Distributed (Machine Safety) course	AS 800	3
SIMATIC Fail-safe (Process Safety) course	AS 810	3
Simatic S5 (Exclusivly on Demand)	AS 500	4
Simatic S7 GRAPH Exclusivly on Demand)	AS 310	3
DCS: SIMATIC PCS 7 SERV(Troubelshooting/Maint)	AS 720	5
Simatic PCS-7 BATCH	AS 730	5
Simatic PCS-7 CEMAT	AS 740	5
SIMATIC Industrial Identification	AS910	2
SIMATIC Industrial Communication	AS920	3
<b>Training Programmes on Drive Products</b>		
Basic course on AC/DC Drives	DR-100	5
Basic AC-Drives with MM4 Maintenance	DR-MM4	5
AC Drive: Masterdrives Vector Control	DR-MDVC	6

Title	Course Code	Days
Masterdrives MC	DR-MDMC	6
SIMOTION - System and Programming	DR-SIMO	8
SINAMICS S120	DR-S120	6
SINAMICS G130 / G150	DR-G130	6
Drives for Crane Control Application	DR-300	5
DC Drive: SIMOREG DC Master 6RA70	DR-DC70	6
DC Drive: SINAMICS DC Master 6RA80	DR-DCM	6
SINAMICS G120	DR-G120	4
MV Drive - Perfect Harmony (at Siemens Nashik)	DR-PH	5
SINAMICS V50	DR-V50	3
<b>Training Programmes on LV Switchgear Products</b>		
LV Switchgear products & Maintenance	CP 100	5
LV Power Distribution Systems	BT 100	2
Communication Solution in Power Distribution	BT 150	2
SIRIUS Soft Starter	CP 200	2
SIMOCODE AC-Motor control	CP 400	2
Basic Automation for Switchgear User	CP 500	3
AC Motor Basics & Maintenance	IM 100	3
JOINT SIMOCODE WITH ASI	CP 410	3
Energy Management Solutions	BT 200	2
Sentron Power Manager	BT 250	3
<b>Training Programmes on Process Instrumentation</b>		
Process Instrumentation	PI 100	4
Mechatronics	MX 100	30

### Siemens Training Centres In India (Address & Contacts)

**Siemens Ltd./Sitrain KWC**  
TSDC, Kalwa Works  
Opposite of Airoli Railway Station  
Thane Belapur Road, Thane - 400601  
Contact: Ms. Avanti Satam  
Tel: +91-22-39663208/8087  
E-mail: customer.training.in@siemens.com

**IATC/ATC-North**  
Industrial Automation Training Centre  
178, Phase II, Industrial Area  
Panchakula-134113, Haryana (India)  
Contact: Ms. Vandita dua  
Tel: +91-172-5044417  
E-mail: iatc@iagautomation.in

**Karunya University/ATC-South1**  
Karunya University Karunya Nagar  
Coimbatore - 641114  
Contact: Dr. V. Jegathesan  
Tel: +91-422-2614318  
E-mail: siemens@karunya.edu

**Esskay Services/ATC-South2**  
9-10-13, 2nd Floor, Siddam Shetty Complex  
Above Canara Bank, Opp. Raymond Showroom  
Parklane, Secunderabad - 500003  
Contact: Mr. Mahesh  
Tel: +91-040-66776353/040-66386352  
E-mail: hydct@esskay.in

**Esskay Services/ATC-East**  
Lane-2 Swarupnagar Dankuni, Hooghly- 712311  
Contact: Mr. Dharmesh  
Tel: +91-33-26590258  
E-mail: koltc@esskay.in

**Esskay Services/ATC-West**  
Block No-801-802, B Wing  
Techno City Plot No. X-4/1 & X-4/2  
TTC Industrial Area, Mahape  
Navi Mumbai - 460710  
Contact: Ms. Bharati  
Tel: +91-22-27882881  
E-mail: mumtc@esskay.in

**Artech Solutions/ATC-Central**  
Raj Sahaydri, Hingna T-Point, Nagpur - 440032  
Contact: Mr. Ritesh Agrawal  
Tel: +91-712-2243338  
E-mail: artech.nagpur@gmail.com

**Christiani Sharpline Technical Training (P) Ltd.**  
Plot No. 19, TTC Industrial Area  
Vishnu Nagar, Digha, Navi Mumbai - 400708  
Contact: Ms. Sarita  
Tel: +91-22-39154101/105  
E-mail: christiani@sharplinegroup.com

**Competency Development Center**  
#49, 2nd Floor, Jyoti Mahal Building  
St. Marks Road, Bangalore  
Contact: Ms. Shweta Nataraj  
Tel: +91-80-33422665  
E-mail: mctraining.in@siemens.com

**Esskay Training Center/MCMT-Pune**  
Plot No.BG/SE1, 11-I  
Near Bhosari Telephone Exchange

MIDC, Bhosari, Pune - 411026  
Contact: Mr. Mangesh Kadam  
Tel: +91-20-32348536  
E-mail: punetc@esskay.in

**ATC-North 3 (Jaipur)**  
Johns Electric Company Private Limited  
C-25(B), Malviya Industrial Area  
Jaipur - 302017, Rajasthan, India.  
Contact: Mr. Sameer Bhargava/ Ms. Prachi Bahrgava  
Tel: +91-141-2751694/357

**ATC - South 3 (Chennai)**  
Vi-Microsystems Pvt. Ltd.  
Plot No. 75, Electronics Estate  
Perungudi, Chennai - 600096  
Contact: Mr. VijayBabu

For information on prices of below products please refer to the  
LV Switchgear Motor Control Products valid MRP

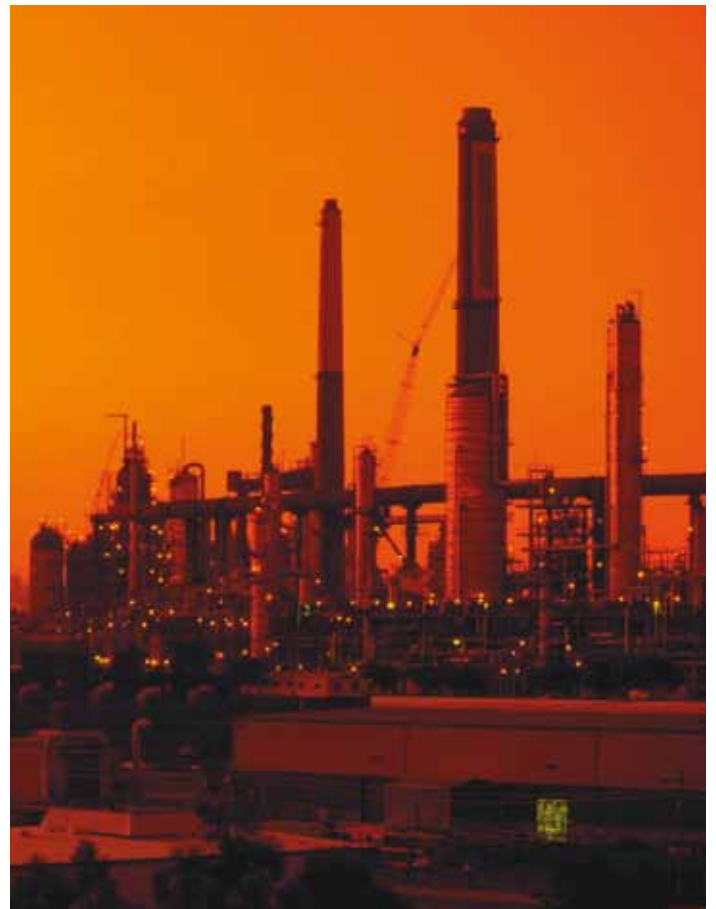


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# SIEMENS



## The 3VA moulded case circuit breaker. A complete system designed with you in mind.

Totally Integrated Power – SENTRON

### Support for the engineering process

The 3VA moulded case circuit breaker is a well thought-out and highly variable system which provides optimum support in each process step – from engineering to daily operation of the electrical power distribution system.

### Find solutions

Choose from a wide product range of basic circuit breakers and accessories and configure the moulded case circuit breaker entirely to your individual requirements.

### Minimize effort

Reduce your planning and engineering effort thanks to the comprehensive CAx data offering.

### Increase transparency

Create a high level of transparency in your system and record all energy-relevant data.

### Ensure system availability

Profit from full selectivity and an intuitive handling concept and ensure high availability, safety and protection for your system.

[www.siemens.com/3VA](http://www.siemens.com/3VA)

Read the QR code with your QR code reader.



[www.siemens.co.in](http://www.siemens.co.in)



## MCCB: Sentron 3VA New

- Rated current: 16A to 630A
- 1 pole, 2 pole, 3 pole & 4 pole versions
- Thermal magnetic and Microprocessor based trip unit
- Common Internal accessories for the entire range
- Information on the GO - Unique Knowledge Manager (QR Code) for 24 X 7 Technical Information
- Innovative Accessories viz. Short Circuit Alarm Signaller, Illuminated Handle, Shunt Trip Flexible etc



### Sentron 3VA MCCB, Thermal Magnetic Trip Unit, Fixed Thermal Fixed Magnetic (FTFM), Ics = 100% Icu, 415VAC, 50Hz

Frame Size	Breaking Capacity @ 415VAC, 50Hz	Rated Current In (A)	3 Pole		4 Pole	
			Type	Unit MRP* ₹	Type	Unit MRP* ₹
3VA10	16kA	16	3VA1096-2ED32-0AA0	6400.-	3VA1096-2ED42-0AA0	8305.-
		20	3VA1020-2ED32-0AA0	6400.-	3VA1020-2ED42-0AA0	8305.-
		25	3VA1025-2ED32-0AA0	6400.-	3VA1025-2ED42-0AA0	8305.-
		32	3VA1032-2ED32-0AA0	6400.-	3VA1032-2ED42-0AA0	8305.-
		40	3VA1040-2ED32-0AA0	6400.-	3VA1040-2ED42-0AA0	8305.-
		50	3VA1050-2ED32-0AA0	6400.-	3VA1050-2ED42-0AA0	8305.-
		63	3VA1063-2ED32-0AA0	6400.-	3VA1063-2ED42-0AA0	8305.-
		80	3VA1080-2ED32-0AA0	7005.-	3VA1080-2ED42-0AA0	9095.-
3VA10	25kA	100	3VA1010-2ED32-0AA0	8100.-	3VA1010-2ED42-0AA0	10560.-
		16	3VA1096-3ED32-0AA0	6575.-	3VA1096-3ED42-0AA0	8580.-
		20	3VA1020-3ED32-0AA0	6575.-	3VA1020-3ED42-0AA0	8580.-
		25	3VA1025-3ED32-0AA0	6575.-	3VA1025-3ED42-0AA0	8580.-
		32	3VA1032-3ED32-0AA0	6575.-	3VA1032-3ED42-0AA0	8580.-
		40	3VA1040-3ED32-0AA0	6575.-	3VA1040-3ED42-0AA0	8580.-
		50	3VA1050-3ED32-0AA0	6575.-	3VA1050-3ED42-0AA0	8580.-
		63	3VA1063-3ED32-0AA0	6575.-	3VA1063-3ED42-0AA0	8580.-
3VA11	25kA	80	3VA1080-3ED32-0AA0	7150.-	3VA1080-3ED42-0AA0	9305.-
		100	3VA1010-3ED32-0AA0	8275.-	3VA1010-3ED42-0AA0	10765.-
		125	3VA1112-3ED32-0AA0	13950.-	3VA1112-3ED42-0AA0	18110.-
3VA10	36kA	160	3VA1116-3ED32-0AA0	16235.-	3VA1116-3ED42-0AA0	21115.-
		16	3VA1096-4ED32-0AA0	6935.-	3VA1196-4GD42-0AA0	9600.-
		20	3VA1020-4ED32-0AA0	6935.-	3VA1120-4GD42-0AA0	9600.-
		25	3VA1025-4ED32-0AA0	6935.-	3VA1125-4GD42-0AA0	9600.-
		32	3VA1032-4ED32-0AA0	6935.-	3VA1132-4GD42-0AA0	9600.-
		40	3VA1040-4ED32-0AA0	6935.-	3VA1140-4GD42-0AA0	9600.-
		50	3VA1050-4ED32-0AA0	6935.-	3VA1150-4GD42-0AA0	9600.-
		63	3VA1063-4ED32-0AA0	6935.-	3VA1163-4GD42-0AA0	9600.-
		80	3VA1080-4ED32-0AA0	7285.-	3VA1180-4GD42-0AA0	10530.-
		100	3VA1010-4ED32-0AA0	8450.-	3VA1110-4GD42-0AA0	12165.-
3VA11	36kA	125	3VA1112-4ED32-0AA0	15145.-	3VA1112-4GD42-0AA0	19685.-
		160	3VA1116-4ED32-0AA0	17665.-	3VA1116-4GD42-0AA0	22960.-
3VA11	55kA	16	3VA1196-5ED32-0AA0	8140.-	3VA1196-5GD42-0AA0	10560.-
		20	3VA1120-5ED32-0AA0	8140.-	3VA1120-5GD42-0AA0	10560.-
		25	3VA1125-5ED32-0AA0	8140.-	3VA1125-5GD42-0AA0	10560.-
		32	3VA1132-5ED32-0AA0	8140.-	3VA1132-5GD42-0AA0	10560.-
		40	3VA1140-5ED32-0AA0	8140.-	3VA1140-5GD42-0AA0	10560.-
		50	3VA1150-5ED32-0AA0	8140.-	3VA1150-5GD42-0AA0	10560.-
		63	3VA1163-5ED32-0AA0	8140.-	3VA1163-5GD42-0AA0	10560.-
		80	3VA1180-5ED32-0AA0	8920.-	3VA1180-5GD42-0AA0	11590.-
		100	3VA1110-5ED32-0AA0	10325.-	3VA1110-5GD42-0AA0	13405.-
		125	3VA1112-5ED32-0AA0	16645.-	3VA1112-5GD42-0AA0	21630.-
160	3VA1116-5ED32-0AA0	19410.-	3VA1116-5GD42-0AA0	25250.-		

Std. Pkg. = 1 unit

\* MRP - Maximum Retail Price

Sentron 3VA MCCB, Thermal Magnetic Trip Unit, Adj. Thermal Fixed Magnetic (ATFM), Ics = 100% Icu, 415VAC, 50Hz



Frame Size	Breaking Capacity @ 415VAC, 50Hz	Rated Current In (A)	3 Pole		4 Pole	
			Type	Unit MRP* ₹	Type	Unit MRP* ₹
3VA11	25kA	16	3VA1196-3EE32-0AA0	8345.-	3VA1196-3GE42-0AA0	11950.-
		20	3VA1120-3EE32-0AA0	8345.-	3VA1120-3GE42-0AA0	11950.-
		25	3VA1125-3EE32-0AA0	8345.-	3VA1125-3GE42-0AA0	11950.-
		32	3VA1132-3EE32-0AA0	8345.-	3VA1132-3GE42-0AA0	11950.-
		40	3VA1140-3EE32-0AA0	8345.-	3VA1140-3GE42-0AA0	11950.-
		50	3VA1150-3EE32-0AA0	8345.-	3VA1150-3GE42-0AA0	11950.-
		63	3VA1163-3EE32-0AA0	8345.-	3VA1163-3GE42-0AA0	11950.-
		80	3VA1180-3EE32-0AA0	8345.-	3VA1180-3GE42-0AA0	11950.-
		100	3VA1110-3EE32-0AA0	8920.-	3VA1110-3GE42-0AA0	11950.-
		125	3VA1112-3EE32-0AA0	15145.-	3VA1112-3GE42-0AA0	18645.-
3VA11	36kA	16	3VA1196-4EE32-0AA0	10300.-	3VA1196-4GE42-0AA0	13495.-
		20	3VA1120-4EE32-0AA0	10300.-	3VA1120-4GE42-0AA0	13495.-
		25	3VA1125-4EE32-0AA0	10300.-	3VA1125-4GE42-0AA0	13495.-
		32	3VA1132-4EE32-0AA0	10300.-	3VA1132-4GE42-0AA0	13495.-
		40	3VA1140-4EE32-0AA0	10300.-	3VA1140-4GE42-0AA0	13495.-
		50	3VA1150-4EE32-0AA0	10300.-	3VA1150-4GE42-0AA0	13495.-
		63	3VA1163-4EE32-0AA0	10300.-	3VA1163-4GE42-0AA0	13495.-
		80	3VA1180-4EE32-0AA0	10300.-	3VA1180-4GE42-0AA0	13495.-
		100	3VA1110-4EE32-0AA0	10300.-	3VA1110-4GE42-0AA0	13495.-
		125	3VA1112-4EE32-0AA0	15865.-	3VA1112-4GE42-0AA0	20200.-
3VA11	55kA	16	3VA1196-5EE32-0AA0	11745.-	3VA1196-5GE42-0AA0	14835.-
		20	3VA1120-5EE32-0AA0	11745.-	3VA1120-5GE42-0AA0	14835.-
		25	3VA1125-5EE32-0AA0	11745.-	3VA1125-5GE42-0AA0	14835.-
		32	3VA1132-5EE32-0AA0	11745.-	3VA1132-5GE42-0AA0	14835.-
		40	3VA1140-5EE32-0AA0	11745.-	3VA1140-5GE42-0AA0	14835.-
		50	3VA1150-5EE32-0AA0	11745.-	3VA1150-5GE42-0AA0	14835.-
		63	3VA1163-5EE32-0AA0	11745.-	3VA1163-5GE42-0AA0	14835.-
		80	3VA1180-5EE32-0AA0	11745.-	3VA1180-5GE42-0AA0	14835.-
		100	3VA1110-5EE32-0AA0	11745.-	3VA1110-5GE42-0AA0	14835.-
		125	3VA1112-5EE32-0AA0	18440.-	3VA1112-5GE42-0AA0	22145.-
3VA11	70kA	16	3VA1132-6EE32-0AA0	16070.-	3VA1196-6GE42-0AA0	20190.-
		20	3VA1120-6EE32-0AA0	16070.-	3VA1120-6GE42-0AA0	20190.-
		25	3VA1132-6EE32-0AA0	16070.-	3VA1125-6GE42-0AA0	20190.-
		32	3VA1132-6EE32-0AA0	16070.-	3VA1132-6GE42-0AA0	20190.-
		40	3VA1140-6EE32-0AA0	16070.-	3VA1140-6GE42-0AA0	20190.-
		50	3VA1150-6EE32-0AA0	16070.-	3VA1150-6GE42-0AA0	20190.-
		63	3VA1163-6EE32-0AA0	16070.-	3VA1163-6GE42-0AA0	20190.-
		80	3VA1180-6EE32-0AA0	16070.-	3VA1180-6GE42-0AA0	20190.-
		100	3VA1110-6EE32-0AA0	16070.-	3VA1110-6GE42-0AA0	20190.-
		125	3VA1112-6EE32-0AA0	29870.-	3VA1112-6GE42-0AA0	32035.-
160	3VA1116-6EE32-0AA0	29870.-	3VA1116-6GE42-0AA0	32035.-		

Std. Pkg. = 1 unit



## Sentron 3VA MCCB, Microprocessor Trip Unit, ETU320 LI, Ics = 100% Icu, 415VAC, 50Hz

New

Frame Size	Breaking Capacity @ 415VAC, 50Hz	Rated Current In (A)	3 Pole		4 Pole		
			Type	Unit MRP* ₹	Type	Unit MRP* ₹	
3VA20	55kA	25	3VA2025-5HL32-0AA0	20220.-	3VA2025-5HL42-0AA0	27700.-	
		40	3VA2040-5HL32-0AA0	20220.-	3VA2040-5HL42-0AA0	27700.-	
		63	3VA2063-5HL32-0AA0	20220.-	3VA2063-5HL42-0AA0	27700.-	
		100	3VA2010-5HL32-0AA0	20220.-	3VA2010-5HL42-0AA0	27700.-	
		3VA21	160	3VA2116-5HL32-0AA0	25630.-	3VA2116-5HL42-0AA0	33190.-
		3VA22	250	3VA2225-5HL32-0AA0	33490.-	3VA2225-5HL42-0AA0	44215.-
		3VA23	400	3VA2340-5HL32-0AA0	42500.-	3VA2340-5HL42-0AA0	55700.-
		3VA24	630	3VA2463-5HL32-0AA0 <sup>1)</sup>	Upon Enquiry	3VA2463-5HL42-0AA0 <sup>1)</sup>	Upon Enquiry
3VA20	85kA	25	3VA2025-6HL32-0AA0	26430.-	3VA2025-6HL42-0AA0	32750.-	
		40	3VA2040-6HL32-0AA0	26430.-	3VA2040-6HL42-0AA0	32750.-	
		63	3VA2063-6HL32-0AA0	26430.-	3VA2063-6HL42-0AA0	32750.-	
		100	3VA2010-6HL32-0AA0	26430.-	3VA2010-6HL42-0AA0	32750.-	
		3VA21	160	3VA2116-6HL32-0AA0	34665.-	3VA2116-6HL42-0AA0	44245.-
		3VA22	250	3VA2225-6HL32-0AA0	38495.-	3VA2225-6HL42-0AA0	56060.-
		3VA23	400	3VA2340-6HL32-0AA0	48300.-	3VA2340-6HL42-0AA0	63430.-
		3VA24	630	3VA2463-6HL32-0AA0 <sup>1)</sup>	Upon Enquiry	3VA2463-6HL42-0AA0 <sup>1)</sup>	Upon Enquiry

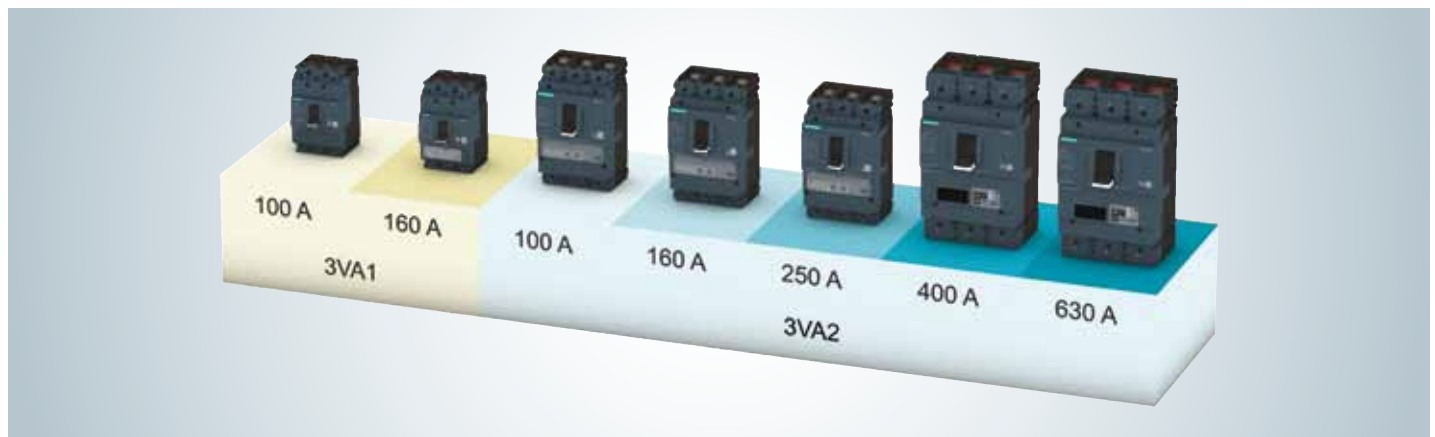
## Sentron 3VA MCCB, Microprocessor Trip Unit, ETU330 LIG, Ics = 100% Icu, 415VAC, 50Hz

New

Frame Size	Breaking Capacity @ 415VAC, 50Hz	Rated Current In (A)	3 Pole		4 Pole		
			Type	Unit MRP* ₹	Type	Unit MRP* ₹	
3VA20	55kA	25	3VA2025-5HM32-0AA0	24960.-	3VA2025-5HM42-0AA0	28600.-	
		40	3VA2040-5HM32-0AA0	24960.-	3VA2040-5HM42-0AA0	28600.-	
		63	3VA2063-5HM32-0AA0	24960.-	3VA2063-5HM42-0AA0	28600.-	
		100	3VA2010-5HM32-0AA0	25480.-	3VA2010-5HM42-0AA0	29900.-	
		3VA21	160	3VA2116-5HM32-0AA0	34320.-	3VA2116-5HM42-0AA0	41185.-
		3VA22	250	3VA2225-5HM32-0AA0	41860.-	3VA2225-5HM42-0AA0	52240.-
		3VA23	400	3VA2340-5HM32-0AA0	50550.-	3VA2340-5HM42-0AA0	63750.-
		3VA24	630	3VA2463-5HM32-0AA0 <sup>1)</sup>	Upon Enquiry	3VA2463-5HM42-0AA0 <sup>1)</sup>	Upon Enquiry
3VA20	85kA	25	3VA2025-6HM32-0AA0	31170.-	3VA2025-6HM42-0AA0	37910.-	
		40	3VA2040-6HM32-0AA0	31170.-	3VA2040-6HM42-0AA0	37910.-	
		63	3VA2063-6HM32-0AA0	31170.-	3VA2063-6HM42-0AA0	37910.-	
		100	3VA2010-6HM32-0AA0	31170.-	3VA2010-6HM42-0AA0	37910.-	
		3VA21	160	3VA2116-6HM32-0AA0	39710.-	3VA2116-6HM42-0AA0	49850.-
		3VA22	250	3VA2225-6HM32-0AA0	46500.-	3VA2225-6HM42-0AA0	65250.-
		3VA23	400	3VA2340-6HM32-0AA0	56350.-	3VA2340-6HM42-0AA0	71480.-
		3VA24	630	3VA2463-6HM32-0AA0 <sup>1)</sup>	Upon Enquiry	3VA2463-6HM42-0AA0 <sup>1)</sup>	Upon Enquiry

<sup>1)</sup> Available w.e.f. January 2015

Std. Pkg. = 1 unit



Siemens switchgear. Tried, tested, trusted.

**Sentron 3VA MCCB, Thermal Magnetic Trip Unit, Fixed Thermal Fixed Magnetic (FTFM), Ics = 100% Icu**

**New**

Frame Size	Breaking Capacity @ 415V AC, 50Hz	Rated Current In (A)	2 Pole	
			Type	Unit MRP* ₹
3VA11	25kA	16	3VA1196-3ED22-0AA0	5460.-
		20	3VA1120-3ED22-0AA0	5460.-
		25	3VA1125-3ED22-0AA0	5460.-
		32	3VA1132-3ED22-0AA0	5460.-
		40	3VA1140-3ED22-0AA0	5460.-
		50	3VA1150-3ED22-0AA0	5460.-
		63	3VA1163-3ED22-0AA0	5460.-
		80	3VA1180-3ED22-0AA0	5975.-
		100	3VA1110-3ED22-0AA0	7005.-
		125	3VA1112-3ED22-0AA0	11330.-
3VA11	36kA	16	3VA1196-4ED22-0AA0	5975.-
		20	3VA1120-4ED22-0AA0	5975.-
		25	3VA1125-4ED22-0AA0	5975.-
		32	3VA1132-4ED22-0AA0	5975.-
		40	3VA1140-4ED22-0AA0	5975.-
		50	3VA1150-4ED22-0AA0	5975.-
		63	3VA1163-4ED22-0AA0	5975.-
		80	3VA1180-4ED22-0AA0	6595.-
		100	3VA1110-4ED22-0AA0	7625.-
		125	3VA1112-4ED22-0AA0	12155.-
160	3VA1116-4ED22-0AA0	14215.-		



3VA11<sup>1)</sup>, 1 Pole, Ics=100% Icu

**Sentron 3VA MCCB, Switch Disconnecter (without protection)**

Frame Size	Breaking Capacity	Rated Current In (A)	3 Pole		4 Pole	
			Type	Unit MRP* ₹	Type	Unit MRP* ₹
3VA11	NA	63	3VA1163-1AA32-0AA0	9065.-	3VA11631AA420AA0	13390.-
		100	3VA1110-1AA32-0AA0	9065.-	3VA11101AA420AA0	13390.-
		125	3VA1112-1AA32-0AA0	18540.-	3VA11121AA420AA0	24720.-
		160	3VA1116-1AA32-0AA0	18540.-	3VA11161AA420AA0	24720.-

<sup>1)</sup> Price upon enquiry

Std. Pkg. = 1 unit



Sentron 3VA - Accessories New

MLFB	Internal Accessories	Unit MRP* ₹
3VA9988-0AA12	Auxiliary switch / Type HQ 1 C/O switch	1385.-
3VA9988-0AA22	Leading changeover switch / Type HQ	1030.-
3VA9988-0AB12	Trip alarm switch / Type HQ	2135.-
3VA9988-0AB32	Short-circuit alarm switches SAS (3VA1 only)	1135.-
3VA9988-0AB22	Electrical alarm switches EAS (3VA2 only)	1135.-
3VA9908-0BB24	Undervoltage Relay UVR 120-127 V AC 50/60 HZ	3275.-
3VA9908-0BB25	Undervoltage Relay UVR 208-230 V AC 50/60 HZ	3275.-
3VA9988-0BA22	Shunt Trip Flexible STF 110-127 V AC 50/60 HZ	2460.-
3VA9988-0BA23	Shunt Trip Flexible STF 208-277 V AC 50/60 HZ	2460.-
MLFB	Rotary Handles (Manual)	Unit MRP* ₹
3VA9157-0FK51 <sup>®</sup>	Door Mounted Rotary Operator with 8UC Front drive (for 3VA1)	2000.-
3VA9267-0FK51 <sup>®</sup>	Door Mounted Rotary Operator with 8UC Front drive (for 3VA2)	2100.-
3VA9157-0FK21	Door Mounted Rotary Operator, STD (for 3VA1)	2680.-
3VA9157-0FK23	Illuminated - Door Mtd Rotary Operator 24VDC (for 3VA1)	4225.-
3VA9267-0FK21	Door mounted rotary operator, STD (for 3VA2)	3090.-
3VA9267-0FK23	Illuminated - Door Mtd Rotary Operator 24VDC (for 3VA2)	4635.-
MLFB	Locking & Interlocking	Unit MRP* ₹
3VA9088-0LB10	Locking device for toggle levers (for 3VA1)	1290.-
3VA9388-0LB10	Locking device for toggle levers (for 3VA2)	1700.-
3VA9157-0LF10	Adapter kit for mounting the cylinder lock (type Ronis) for 3VA1	2060.-
3VA9167-0LF10	Adapter kit for mounting the cylinder lock (type Ronis) for 3VA2	2060.-
3VA9980-0LF20	Adapter cylinder lock RHO	2060.-
3VA9980-0VL10	Cylinder lock RONIS (key number 1)	775.-
3VA9980-0VL20	Cylinder lock RONIS (key number 2)	775.-
3VA9158-0VF30	Sliding bar for 3VA1	4225.-
3VA9168-0VF30	Sliding bar for 3VA2	4635.-
3VA9157-0VF10	Bowden cable interlock module (for 3VA1)	1650.-
3VA9167-0VF10	Bowden cable interlock module (for 3VA2)	1805.-
3VA9980-0VC20	Bowden cable (1,0M/39.370")	2060.-
3VA9088-0VM10	Rear interlock walking beam with rod for 3VA1/ 2 MCCB	13630.-
3VA9088-0VK10	Rear interlock mounting frame	3090.-
3VA9158-0VK20	Rear interlock mounting plate (for 3VA1)	570.-
3VA9268-0VK20	Rear interlock mounting plate (for 3VA2)	570.-
MLFB	Motor Operators (MO)	Unit MRP* ₹
3VA9157-0HA20	MO320, 110-230 V AC / 110-250 V DC (for 3VA1)	14165.-
3VA9267-0HA20	MO320, 110-230 V AC / 110-250 V DC (for 3VA2)	18540.-
MLFB	Connection Technology (Spreaders)	Unit MRP* ₹
3VA9153-0QC00	Front connection bars broadened 3 pcs + 2 phase barriers (for 3VA1) 3 Pole	1755.-
3VA9154-0QC00	Front connection bars broadened 4 pcs + 3 phase barriers (for 3VA1) 4 Pole	2270.-
3VA9263-0QC00	Front connection bars broadened 3 pcs + 2 phase barriers (for 3VA2) 3 Pole	1855.-
3VA9264-0QC00	Front connection bars broadened 4 pcs + 3 phase barriers (for 3VA2) 4 Pole	2475.-

**Notes:**

For higher breaking capacities (100kA and 150kA) and other special application MCCB, contact our nearest Sales Office.  
For side mounted handles please contact our nearest Sales Office.

<sup>®</sup> 1 set contains rotary mechanism, coupler, shaft and 8UC door drive.

Std. Pkg. = 1 unit

## ACB: SENTRON 3WL

- Conforms to IEC 60947-2
- Rated current - 630A to 6300A
- Accurate protection through microprocessor based trip unit
- Unique ready-to-close interlock for maximum safety
- Mechanical contact erosion indicator
- Fully rated upto 55°C
- Neutral 100% rated
- Integrated online test facility
- Unique CubicleBus technology
- Data communication and power management options



**Standard breaking capacity  $I_{CS} = 100\% I_{CU}$**

**Manually operated ACB**

**Microprocessor based trip unit ETU45B LSIN protection (Overload and short circuit protection)**

Frame Size	Rated Current In (A)	Type	Withdrawable design with Guide Frame		Fixed mounted design	
			Unit MRP* ₹	Unit MRP* ₹	Unit MRP* ₹	Unit MRP* ₹
			3 Pole	4 Pole	3 Pole	4 Pole
I	630	3WL1106....	225660.-	285025.-	149025.-	223490.-
	800	3WL1108....	228130.-	290640.-	153615.-	229195.-
	1000	3WL1110....	234170.-	310790.-	168610.-	242075.-
	1250	3WL1112....	283605.-	358645.-	207445.-	295575.-
	1600	3WL1116....	312750.-	394035.-	219560.-	318420.-
II	2000	3WL1220....	337940.-	447190.-	227620.-	331535.-
	2500	3WL1225....	397135.-	509890.-	241985.-	382215.-
	3200	3WL1232....	514725.-	706900.-	344950.-	580595.-
	4000	3WL1240....	592215.-	751920.-	469645.-	636340.-
III	5000	3WL1350....	958150.-	1215435.-	855560.-	1122765.-
	6300	3WL1363....	1288295.-	1618665.-	1116995.-	1472580.-

Prices of ACBs with other breaking capacities available on request.

L: Overload protection      S: Delayed Short Circuit protection      I: Short circuit protection  
G: Ground fault protection      N: Neutral protection

Note: Std. Pkg. = 1 unit

### Add-on options

Microprocessor based Release	Add MRP* ₹
For ground fault protection	16280.-
Protection function LSIN with Current display	7065.-
Protection function LSING with Current display	23345.-

For prices of breakers with other types of microprocessor based trip unit, please consult your nearest sales office

Motorised Mechanism	Add MRP* ₹
208-240VAC, 220Vdc motor, closing coil & Shunt trip coil	59830.-
110-127VAC, 110Vdc motor, closing coil & Shunt trip coil	59830.-

Other voltages available on request

All ACBs are with Top Horizontal - Bottom Horizontal main terminals except 6300A & 4000A which have only Vertical-Vertical main termination.

All ACBs are with Door Sealing Frame & 2NO+2NC auxiliary contact block, trip signal switch and ready-to-close signal switch.

Transparent cover for trip unit supplied as standard with all ACBs. *Not applicable for ACBs without trip unit.*

Neutral CT if required, shall be ordered separately. \*Castell locks are to be ordered separately. Please refer to 3WT Accessories for type no. & price of castell locks.

Please consult your nearest sales office for complete ordering code.

### Add-on options

Description	Add MRP* ₹
Spring Charge Signal Switch	5160.-
Door Interlock	4380.-
Position Signal Switch for Withdrawable Breaker	11320.-
Castell lock mounting kit*	3685.-
Mutual Mechanical Interlocking (Bowden wire)	Upon Enquiry
Metering function Plus (voltage transformer must be ordered separately)	Upon Enquiry
Profibus communication connection ( Com15 + BSS)	Upon Enquiry
Modbus communication connection ( Com16 + BSS)	Upon Enquiry

ACB for 1000/1150 V AC operation and DC application available on request

## Accessories

Description	AC 50/60Hz V	DC V	Type	Unit MRP* ₹
Shunt Release or Closing Coil Suitable for continuous operation	-	24	3WL9 111-0AD01-0AA0	9910.-
	110	110	3WL9 111-0AD05-0AA0	9910.-
	230	220	3WL9 111-0AD06-0AA0	9910.-
Under Voltage Release (Instantaneous)	380-415	-	3WL9 111-0AE06-0AA0	10945.-
Motorised Operating Mechanism	-	24-30	3WL9 111-0AF01-0AA0	54775.-
	110-127	110-125	3WL9 111-0AF03-0AA0	54775.-
	208-240	220-250	3WL9 111-0AF04-0AA0	54775.-
Auxiliary Switch Block	2NO+2NC		3WL9 111-0AG01-0AA0	5805.-

Please order necessary auxiliary terminal blocks as per circuit diagram while ordering accessories. Please consult your nearest sales office for type nos. and prices.

Note: Std. Pkg. = 1 unit

# ACB: 3WT

- Conforms to IEC 60947-2
- Rated current - 630A to 4000A
- Accurate protection through microprocessor based trip unit
- Unique ready-to-close interlock for maximum safety
- Mechanical contact erosion indicator
- Fully rated upto 50°C
- Neutral 100% rated
- Integrated online test facility
- LCD Display, as standard

Also available for 690V AC operation



## Standard breaking capacity, 500VAC $I_{cs} = 100\% I_{cu}$ .

Microprocessor based trip unit ETU37WT: LSING + Display

Frame Size	Rated current In (A)		Withdrawable design with Guide Frame <sup>2)</sup>			
			3 Pole	Unit MRP* ₹	4 Pole	Unit MRP* ₹
I	630	MDO	3WT8061-6AA04-5AB2	173040.-	3WT8065-6AA04-5AB2	224955.-
		EDO	3WT8061-6UA34-5AB2	223820.-	3WT8065-6UA34-5AB2	275735.-
	● 800	MDO	3WT8081-6AA04-5AB2	182620.-	3WT8085-6AA04-5AB2	239060.-
		EDO	3WT8081-6UA34-5AB2	233400.-	3WT8085-6UA34-5AB2	289840.-
	1000	MDO	3WT8101-6AA04-5AB2	187570.-	3WT8105-6AA04-5AB2	243320.-
		EDO	3WT8101-6UA34-5AB2	238350.-	3WT8105-6UA34-5AB2	294100.-
	● 1250	MDO	3WT8121-6AA04-5AB2	230400.-	3WT8125-6AA04-5AB2	273895.-
		EDO	3WT8121-6UA34-5AB2	281180.-	3WT8125-6UA34-5AB2	324675.-
	● 1600	MDO	3WT8161-6AA04-5AB2	247275.-	3WT8165-6AA04-5AB2	299345.-
		EDO	3WT8161-6UA34-5AB2	298055.-	3WT8165-6UA34-5AB2	350125.-
II	● 2000	MDO	3WT8202-6AA04-5AB2	310695.-	3WT8206-6AA04-5AB2	382385.-
		EDO	3WT8202-6UA34-5AB2	361475.-	3WT8206-6UA34-5AB2	433165.-
	● 2500	MDO	3WT8252-6AA04-5AB2	351925.-	3WT8256-6AA04-5AB2	447415.-
		EDO	3WT8252-6UA34-5AB2	402705.-	3WT8256-6UA34-5AB2	498195.-
	● 3200	MDO	3WT8322-6AA04-5AB2	451185.-	3WT8326-6AA04-5AB2	553610.-
		EDO	3WT8322-6UA34-5AB2	501965.-	3WT8326-6UA34-5AB2	604390.-

### Microprocessor based Trip Units

ETU35WT: LSI + Display



Reduce

2375.-



Reduce

2375.-

Microprocessor based trip unit ETU37WT: LSING + Display

Frame Size	Rated current In (A)		Fixed Mounted design <sup>3)</sup>			
			3 Pole	Unit MRP* ₹	4 Pole	Unit MRP* ₹
I	630	MF	3WT8061-6AA00-0AA2	127155.-	3WT8065-6AA00-0AA2	172040.-
		EF	3WT8061-6UA30-0AA2	177935.-	3WT8065-6UA30-0AA2	222820.-
	● 800	MF	3WT8081-6AA00-0AA2	137260.-	3WT8085-6AA00-0AA2	188865.-
		EF	3WT8081-6UA30-0AA2	188040.-	3WT8085-6UA30-0AA2	239645.-
	1000	MF	3WT8101-6AA00-0AA2	139920.-	3WT8105-6AA00-0AA2	200065.-
		EF	3WT8101-6UA30-0AA2	190700.-	3WT8105-6UA30-0AA2	250845.-
	● 1250	MF	3WT8121-6AA00-0AA2	190320.-	3WT8125-6AA00-0AA2	225060.-
		EF	3WT8121-6UA30-0AA2	241100.-	3WT8125-6UA30-0AA2	275840.-
	● 1600	MF	3WT8161-6AA00-0AA2	194335.-	3WT8165-6AA00-0AA2	241075.-
		EF	3WT8161-6UA30-0AA2	245115.-	3WT8165-6UA30-0AA2	291855.-
II	● 2000	MF	3WT8202-6AA00-0AA2	218555.-	3WT8206-6AA00-0AA2	313735.-
		EF	3WT8202-6UA30-0AA2	269335.-	3WT8206-6UA30-0AA2	364515.-
	● 2500	MF	3WT8252-6AA00-0AA2	246695.-	3WT8256-6AA00-0AA2	368350.-
		EF	3WT8252-6UA30-0AA2	297475.-	3WT8256-6UA30-0AA2	419130.-
	● 3200	MF	3WT8322-6AA00-0AA2	375615.-	3WT8326-6AA00-0AA2	462580.-
		EF	3WT8322-6UA30-0AA2	426395.-	3WT8326-6UA30-0AA2	513360.-

### Microprocessor based Trip Units

ETU35WT: LSI + Display



Reduce

2375.-



Reduce

2375.-

For Non-Automatic ACBs please deduct Rs. 5395/- from the MRPs of the ACBs marked ●. For type nos. of Non-Automatic ACBs contact nearest sales office  
 For Non-Automatic ACBs marked ● please consult nearest sales office

L: Overload protection S: Delayed Short Circuit protection I: Short circuit protection G: Ground fault protection<sup>1)</sup> N: Neutral protection<sup>1)</sup>

Standard accessories included for electrical ACB (EDO/EF) = Motor operated mechanism, with mechanical and electrical closing, motor and closing solenoid of 220-240V AC/DC and shunt release of 220-240V AC/DC.

<sup>1)</sup> Current transformer for N-conductor shall be ordered separately for 3P ACB with Earth Fault and Neutral Conductor Protection.

<sup>2)</sup> Standard Accessories included for draw out type ACB (EDO/MDO) = Safety shutter, sealing cap over Off button, door sealing frame, trip unit transparent cover, trip signaling contact, ready to close signaling contact, auxiliary contacts 2NO+ 2NC

<sup>3)</sup> Standard accessories included for fixed type ACB (EF/MF) = Door sealing frame, trip unit transparent cover, trip signaling contact, ready to close signaling contact, auxiliary contacts 2NO+2NC

Note: Please contact nearest sales office for information on prices of 4000A ACB. Additional MRP for 690V AC ACB - ₹ 22,999/-

Std. Pkg. = 1 unit



## 3WT Accessories

Description	AC 50/60Hz V	DC V	Type	Unit MRP* ₹
Motorized Operating Mechanism with Electrical closing	110-127	110-125	3WT9831-1JH00	53480.-
	220-240	220-250	3WT9831-1JK00	53480.-
Shunt Release or Closing Coil Suitable for continuous operation	–	24	3WT9851-1JB00	3780.-
	110-127	110-125	3WT9851-1JH00	3780.-
	220-240	220-250	3WT9851-1JK00	3780.-
Under Voltage Release Instantaneous	110-127	110-125	3WT9853-1JH00	4760.-
	208-240	220-250	3WT9853-1JK00	4760.-
	380-415	–	3WT9853-1JM00	4760.-
Auxiliary Terminal Block	Fixed circuit breaker		3WT9825-1JC00	3340.-
	Drawout circuit breaker		3WT9827-1JA00	3340.-
Auxiliary Switch Block	2 Change over		3WT9816-1CE00	1895.-
Position Signal Switch for Withdrawable Breaker	3NO+3NC, 2NO+2NC, 1NO+1NC		3WT9884-1JC10	4760.-
5 digit operating cycle counter			3WT9864-0CA00	7760.-
Blocking Device for preventing opening of cubicle door in service position: for Withdrawable Breaker Blocking Device for preventing opening of cubicle door in ON position: for Fixed Breaker			3WT9867-1JC00	3590.-
			3WT9867-2JA00	3590.-
Castell Lock Mounting Kit			3WT9863-6JE00	5405.-
Castell Lock (Also suitable for 3WL ACB)			3WX3663-6JEL_#	3165.-
Door Sealing Frame (Also suitable for 3WL ACB)			3WX3686-0JA00	2015.-
External Current Sensor for N-conductor (For 3P ACB with Neutral or E/F Protection)	Size I		3WL9111-0AA21-0AA0	15730.-
	Size II		3WL9111-0AA22-0AA0	18275.-
External Current Sensor for N-conductor with copper connectors (for 3P ACB with Neutral or E/F protection)	Size I		3WL9111-0AA31-0AA0	17255.-
	Size II		3WL9111-0AA32-0AA0	19810.-

\* Types of castell locks shall be of type A, B, C, D, AB, AC; \_ to be replaced by the type no.

For fitment of motor/ shunt/ closing coil/ UV release/ addl. auxiliary contacts please order necessary Auxiliary terminal blocks as per circuit diagram.

Note: Std. Pkg. = 1 unit

## Retrofit solution

Description	Unit MRP* ₹
Ready to fit kit for upgrading from our old or other make conventional Air Circuit Breaker to modern Sentron range of ACBs. <ul style="list-style-type: none"> <li>• Minimum Shut Down Time</li> <li>• No change in the existing panel except door cut out</li> <li>• No change in the existing panel bus-bars</li> <li>• Proven Siemens Design</li> <li>• No over heating</li> <li>• Cost Effective &amp; Quality Solution</li> </ul>	Upon enquiry

For more details write to us at: [adscs.india@siemens.com](mailto:adscs.india@siemens.com)

## SENTRON Automatic Transfer Controller ATC5300

- Auto, Manual and Test modes of operation
- Monitoring and Display of status of Normal and Replacement Supply
- Programmable I/Os and Alarm Indication
- Remote parameterization on PC via SENTRON Software ATC
- Communication on Modbus RTU
- Tested as per IEC 60947-6-1 with Siemens ACBs and MCCBs



Description	Type	Unit MRP* ₹	Std. pkg. (nos.)
SENTRON Automatic Transfer Controller ATC5300	3KC90008TL30	76120.-	1
SENTRON Software ATC	3KC90008TL70	55000.-	1





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## MCCB: Sentron 3VT1...5

Type 2 Co-ordination available

- Rated current - 16A to 1600A
- 3 and 4 pole versions
- Breaking capacity from 25kA to 65kA
- Thermal magnetic and Microprocessor based trip unit
- Switch disconnecter for complete range
- Special purpose trip unit for motor & generator protection
- Under voltage & shunt release with multiple voltage settings
- Fixed mounted, plug-in and draw-out versions



### 3VT1, Thermal Magnetic trip unit, Icu = 25kA, 415 V AC, 50 Hz MCCB (Fixed Overload & Fixed Short Circuit Settings) for line protection

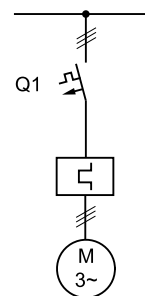
Rated current I <sub>n</sub> (A)	3 Pole		4 Pole		Std. pkg. (nos.)
	Type	Unit MRP* ₹	Type	Unit MRP* ₹	
40	3VT1704-2DA36-0AA0	6510.-	3VT1704-2EA46-0AA0	8790.-	1
63	3VT1706-2DA36-0AA0	6510.-	3VT1706-2EA46-0AA0	8790.-	1
80	3VT1708-2DA36-0AA0	6510.-	3VT1708-2EA46-0AA0	8790.-	1
100	3VT1710-2DA36-0AA0	6510.-	3VT1710-2EA46-0AA0	8790.-	1
125	3VT1712-2DA36-0AA0	8615.-	3VT1712-2EA46-0AA0	11915.-	1
160	3VT1716-2DA36-0AA0	11765.-	3VT1716-2EA46-0AA0	14900.-	1

### 3VT1, Thermal Magnetic trip unit, Icu = 25kA, 415 V AC, 50 Hz MCCB (Adjustable Overload & Adjustable Short Circuit Settings) for line protection

Rated current I <sub>n</sub> (A)	3 Pole		4 Pole		Std. pkg. (nos.)
	Type	Unit MRP* ₹	Type	Unit MRP* ₹	
16	3VT1701-2DC36-0AA0	7145.-	3VT1701-2EC46-0AA0	10780.-	1
25	3VT1792-2DC36-0AA0	7145.-	3VT1792-2EC46-0AA0	10780.-	1
32	3VT1703-2DC36-0AA0	7145.-	3VT1703-2EC46-0AA0	10780.-	1
40	3VT1704-2DC36-0AA0	7145.-	3VT1704-2EC46-0AA0	10780.-	1
63	3VT1706-2DC36-0AA0	7145.-	3VT1706-2EC46-0AA0	10780.-	1
80	3VT1708-2DC36-0AA0	7145.-	3VT1708-2EC46-0AA0	10780.-	1
100	3VT1710-2DC36-0AA0	7145.-	3VT1710-2EC46-0AA0	10780.-	1
125	3VT1712-2DC36-0AA0	9230.-	3VT1712-2EC46-0AA0	12620.-	1
160	3VT1716-2DC36-0AA0	12700.-	3VT1716-2EC46-0AA0	16160.-	1

### 3VT1, Thermal Magnetic trip unit for Motor Protection, Icu = 25kA, 415 V AC, 50 Hz MCCB (Adjustable Overload & Fixed Short Circuit Settings)

Rated current I <sub>n</sub> (A)	3 Pole Type	Unit MRP* ₹	Std. pkg. (nos.)
16	3VT1701-2DM36-0AA0	7035.-	1
20	3VT1702-2DM36-0AA0	7035.-	1
25	3VT1792-2DM36-0AA0	7035.-	1
32	3VT1703-2DM36-0AA0	7035.-	1
40	3VT1704-2DM36-0AA0	7035.-	1
50	3VT1705-2DM36-0AA0	7035.-	1
63	3VT1706-2DM36-0AA0	7035.-	1
80	3VT1708-2DM36-0AA0	7035.-	1
100	3VT1710-2DM36-0AA0	7035.-	1



### Switch disconnecter

Rated current I <sub>n</sub> (A)	3 Pole		4 Pole		Std. pkg. (nos.)
	Type	Unit MRP* ₹	Type	Unit MRP* ₹	
160	3VT1716-2DE36-0AA0	9985.-	3VT1716-2EE46-0AA0	12580.-	1

Note: Std. Pkg. = 1 unit

## Main switching unit without Trip Unit (ETU)

To be ordered along with trip unit or switch disconnector unit

Frame Size	Breaking capacity (Icu, 415V AC, 50Hz)	Rated current I <sub>n</sub> (A)	3 pole		4 pole		Std. pkg. (nos.)
			Type	Unit MRP* ₹	Type	Unit MRP* ₹	
3VT2	36 kA	250	3VT2725-2AA36-0AA0	6915.-	3VT2725-2AA46-0AA0	10750.-	1
3VT3		630	3VT3763-2AA36-0AA0	16895.-	3VT3763-2AA46-0AA0	23800.-	1
3VT2	65 kA	250	3VT2725-3AA36-0AA0	8640.-	3VT2725-3AA46-0AA0	13405.-	1
3VT3		630	3VT3763-3AA36-0AA0	19360.-	3VT3763-3AA46-0AA0	25695.-	1
3VT4		1000	3VT4710-3AA30-0AA0	30975.-			1
3VT5	55 kA	1600	3VT5716-3AA30-0AA0	46465.-			1



## Microprocessor based Trip Unit (ETU)

To be ordered along with the MCCB Main switching unit

Trip unit for system protection ETU LP, LI function  
(Fixed Overload & Fixed Short Circuit, 3P / 4P)

Frame size	Rated current I <sub>n</sub> (A)	Type	Unit MRP* ₹	Std. pkg. (nos.)
3VT2	160	3VT9216-6AB00	6030.-	1
	200	3VT9220-6AB00	9040.-	1
	250	3VT9225-6AB00	14320.-	1
3VT3	315	3VT9331-6AB00	12055.-	1
	400	3VT9340-6AB00	12810.-	1
	630	3VT9363-6AB00	17330.-	1

Trip unit for Motor & Generator Protection ETU MP, LI function  
(Adj Overload & Adj Short Circuit Settings 3P / 4P)

Frame size	Rated current I <sub>n</sub> (A)	Type	Unit MRP* ₹	Std. pkg. (nos.)
3VT2	100	3VT9210-6AP00	7165.-	1
	160	3VT9216-6AP00	7540.-	1
	250	3VT9225-6AP00	15825.-	1
3VT3	400	3VT9340-6AP00	15825.-	1
	630	3VT9363-6AP00	19595.-	1

Trip unit for system protection ETU DP, LI function  
(Adj Overload & Adj Short Circuit, 3P / 4P)<sup>s</sup>

Frame size	Rated current I <sub>n</sub> (A)	Type	Unit MRP* ₹	Std. pkg. (nos.)
3VT2	100	3VT9210-6AC00	5320.-	1
	160	3VT9216-6AC00	7465.-	1
	250	3VT9225-6AC00	15785.-	1
3VT3	250	3VT9325-6AC00	13635.-	1
	400	3VT9340-6AC00	13635.-	1
	630	3VT9363-6AC00	17940.-	1
3VT4	800	3VT9480-6AC00	14930.-	1
	1000	3VT9410-6AC00	47020.-	1
3VT5	1250	3VT9512-6AC00	50930.-	1
	1600	3VT9516-6AC00	86185.-	1

Switch Disconnector Unit, 3P / 4P<sup>s</sup>

Frame size	Rated current I <sub>n</sub> (A)	Type	Unit MRP* ₹	Std. pkg. (nos.)
3VT2	250	3VT9225-6DT00	3770.-	1
3VT3	630	3VT9363-6DT00	6030.-	1
3VT4	1000	3VT9410-6DT00	21370.-	1
3VT5	1600	3VT9516-6DT00	28500.-	1

### Benefits of interchangeable trip units

- Suitable for various applications
- Easy upgradation at site

Note: The ordering of the microprocessor based MCCB would involve

## Main switching unit + Trip unit



Main switching unit



Trip unit



Complete unit

\$: Please note 3VT4 & 3VT5 trip unit prices are only for 3 pole

Note: Std. Pkg. = 1 unit

\* MRP - Maximum Retail Price

Siemens Ltd. LV SGR - Power Distribution Products MRP Eff. 01-10-2014 15

## Accessories for 3VT1...5

Accessory		3VT1 Type	Unit MRP* ₹	3VT2 Type	Unit MRP* ₹	3VT3 Type	Unit MRP* ₹	3VT4/5 Type	Unit MRP* ₹	
Auxiliary Switch		3VT9100-2AB10 (Changeover Switch)	1095.-	3VT9300-2AF10 (1NO+1NC)	1700.-	3VT9300-2AF10 (1NO+1NC)	1700.-	3VT9500-2AF10 (2NO+2NC)	2,820.-	
				3VT9300-2AC10 (1NO)	850.-	3VT9300-2AC10 (1NO)	850.-			
Alarm Switch		3VT9100-2AH10 (Changeover Switch)	1095.-	3VT9300-2AD10 (1NC)	850.-	3VT9300-2AD10 (1NC)	850.-			
Shunt Release		AC 230V/ DC 220V	3VT9100-1SE00@	1485.-	3VT9300-1SE00\$	1925.-	3VT9300-1SE00\$	1925.-	3VT9500-1SJ00	2,130.-
		AC/DC 110V	3VT9100-1SD00	1485.-	3VT9300-1SD00	1925.-	3VT9300-1SD00	1925.-	3VT9500-1SH00	2,130.-
Under-voltage Release		AC 230V/ DC 220V	3VT9100-1UE00^	1830.-	3VT9300-1UE00\$	2335.-	3VT9300-1UE00\$	2335.-	3VT9500-1UJ00	2,355.-
Spreader Links		one set = 3 links (3 pole)	3VT9100-4ED30	510.-	3VT9200-4EG30	645.-	3VT9300-4EG30	860.-		
		4 pole spreaders (one set = 4 links + 3 phase barriers)	3VT9100-4ED48	655.-	3VT9200-4ED48	850.-	3VT9300-4ED48	1115.-		
Motorised Drive		AC 230 V/ DC 220 V	3VT9100-3ME00#	6470.-	3VT9200-3MQ00	21180.-	3VT9300-3MQ00	22005.-	3VT9500-3MQ00	41260.-
		Extension cable <sup>3</sup> for motorized operating mechanism, 12 wires, length 60 cm	3VT91003MF00	1215.-	3VT93003MF00	1215.-	3VT93003MF00	1215.-		
Phase Barriers		One set = 2 Pcs.	3VT9100-8CE30	455.-	3VT9300-8CE30	645.-	3VT9300-8CE30	645.-	3VT9500-8CE30	700.-
Panel door mounted rotary operating handles <sup>2</sup>		1 set **	3VT9100-3HQ00	1455.-	3VT9200-3HQ00	1845.-	3VT9300-3HQ00	1985.-	3VT9500-3HQ00	4230.-
Castell Interlock Kit <sup>1</sup>		1 set (1 lock + 1 key)	8UC60700YQ..	3320.-	8UC60701YQ..	3320.-	8UC60701YQ..	3320.-	8UC60702YQ..	3405.-

**Notes:**

- The 11th and 12th place of the type reference will indicate the alphabet type of lock & key. Combinations available are A, B, C, D, A-, -B, -C, AB, AC. 11th place will be A, B, C, D for castell lock type A, B, C, D respectively. 11th and 12 place will be AO, OB, OC, AB, AC for castell lock type A-, -B, -C, AB, AC respectively.
- For direct & lateral mounted handles please contact your nearest Sales Office.
- Pre wired motorised drive cable to be ordered separately along with the motorised drive

- # Lateral Motorised Drive
- @ Also suitable for 400V AC
- \$ Also suitable for 400/500V AC
- ^ Not suitable for 220V DC, suitable for 400V AC
- \*\* 1 set contains rotary mechanism, coupler, shaft and door drive



**SIEMENS**



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Low Voltage Switchboards for Industry, Buildings and Infrastructure

Delivering high performance reliability with low foot print and savings in energy costs.

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## MCCB: Sentron 3VL

- Upto 16A to 1600A
- 3 pole & 4 pole versions
- Thermal magnetic and Microprocessor based trip unit



### 3VL MCCB, Thermal-magnetic trip unit (fixed overload and fixed short circuit), Icu = 55kA, 415V AC, 50 Hz

Frame size	Rated current I <sub>n</sub> (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit MRP* ₹	Type	Unit MRP* ₹	
VL160X VL160X = 3VL1	16	3VL1796-1DA36-0AA0	8500.-	3VL1796-1EH46-0AA0	11095.-	1
	20	3VL1702-1DA36-0AA0	8500.-	3VL1702-1EH46-0AA0	11095.-	1
	32	3VL1703-1DA36-0AA0	8500.-	3VL1703-1EH46-0AA0	11095.-	1
	63	3VL1706-1DA36-0AA0	8500.-	3VL1706-1EH46-0AA0	11095.-	1
	100	3VL1710-1DA36-0AA0	8890.-	3VL1710-1EH46-0AA0	11595.-	1
	125	3VL1712-1DA36-0AA0	12505.-	3VL1712-1EH46-0AA0	14625.-	1
	160	3VL1716-1DA36-0AA0	15570.-	3VL1716-1EH46-0AA0	18520.-	1

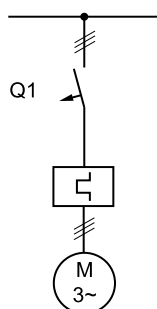
### 3VL MCCB, Thermal-magnetic trip unit (adjustable overload and short circuit), Icu = 55kA, 415V AC, 50 Hz

Frame size	Rated current I <sub>n</sub> (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit MRP* ₹	Type	Unit MRP* ₹	
VL160X / VL160 VL160X = 3VL1 VL160 = 3VL2	20	3VL1702-1DD36-0AA0	12145.-	3VL1702-1EA46-0AA0#	16190.-	1
	32	3VL1703-1DD36-0AA0	12145.-	3VL1703-1EA46-0AA0#	16190.-	1
	63	3VL1706-1DD36-0AA0	12145.-	3VL2706-1EM46-0AA0	16190.-	1
	100	3VL1710-1DD36-0AA0	12700.-	3VL2710-1EM46-0AA0	16930.-	1
	125	3VL1712-1DD36-0AA0	14510.-	3VL2712-1EM46-0AA0	18440.-	1
	160	3VL1716-1DD36-0AA0	18220.-	3VL2716-1EM46-0AA0	23845.-	1
VL 250	200	3VL3720-1DC36-0AA0	25445.-	3VL3720-1EM46-0AA0	35505.-	1
	250	3VL3725-1DC36-0AA0	27605.-	3VL3725-1EM46-0AA0	35505.-	1
VL 400	315	3VL4731-1DC36-0AA0	38185.-	3VL4731-1EM46-0AA0	46600.-	1
	400	3VL4740-1DC36-0AA0	38185.-	3VL4740-1EM46-0AA0	46600.-	1
VL 630	500	3VL5750-1DC36-0AA0	43710.-	3VL5750-1EM46-0AA0	51970.-	1
	630	3VL5763-1DC36-0AA0	43710.-	3VL5763-1EM46-0AA0	51970.-	1

### 3VL MCCB, Thermal-magnetic trip unit (adjustable overload and short circuit), Icu = 70kA, 415V AC, 50 Hz

Frame size	Rated current I <sub>n</sub> (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit MRP* ₹	Type	Unit MRP* ₹	
VL160X / VL160 VL160X = 3VL1 VL160 = 3VL2	20	3VL1702-2DD36-0AA0	19440.-	3VL1702-2EA46-0AA0#	24805.-	1
	32	3VL1703-2DD36-0AA0	19440.-	3VL1703-2EA46-0AA0#	24805.-	1
	63	3VL1706-2DD36-0AA0	19440.-	3VL2706-2EM46-0AA0	24805.-	1
	100	3VL1710-2DD36-0AA0	19440.-	3VL2710-2EM46-0AA0	24805.-	1
	125	3VL1712-2DD36-0AA0	27710.-	3VL2712-2EM46-0AA0	36090.-	1
	160	3VL1716-2DD36-0AA0	28920.-	3VL2716-2EM46-0AA0	37070.-	1
VL 250	200	3VL3720-2DC36-0AA0	31345.-	3VL3720-2EM46-0AA0	42645.-	1
	250	3VL3725-2DC36-0AA0	34115.-	3VL3725-2EM46-0AA0	42645.-	1
VL 400	315	3VL4731-2DC36-0AA0	38370.-	3VL4731-2EM46-0AA0	49880.-	1
	400	3VL4740-2DC36-0AA0	38370.-	3VL4740-2EM46-0AA0	49880.-	1
VL 630	500	3VL5750-2DC36-0AA0	48035.-	3VL5750-2EM46-0AA0	62940.-	1
	630	3VL5763-2DC36-0AA0	48035.-	3VL5763-2EM46-0AA0	62940.-	1

### 3VL MCCB for Motor protection (Magnetic trip unit, 3 Pole)



Frame size	Rated current I <sub>n</sub> (A)	standard breaking capacity (55 kA, 415V, 50 Hz)		high breaking capacity (70 kA, 415V, 50 Hz)		Std. pkg. (nos.)
		Type	Unit MRP* ₹	Type	Unit MRP* ₹	
VL160	63 A	3VL2706 - 1DK36 - 0AA0	14660.-	3VL2706 - 2DK36 - 0AA0	18275.-	1
	100 A	3VL2710 - 1DK36 - 0AA0	14660.-	3VL2710 - 2DK36 - 0AA0	18275.-	1
	160 A	3VL2716 - 1DK36 - 0AA0	22095.-	3VL2716 - 2DK36 - 0AA0	28340.-	1
VL250	250 A	3VL3725 - 1DK36 - 0AA0	29715.-	3VL3725 - 2DK36 - 0AA0	33730.-	1
VL400	315 A	3VL4731 - 1DK36 - 0AA0	36515.-	3VL4731 - 2DK36 - 0AA0	38105.-	1
VL630	500 A	3VL5750 - 1DK36 - 0AA0	42050.-	3VL5750 - 2DK36 - 0AA0	43930.-	1

# Fixed overload & fixed short circuit

Note: Std. Pkg. = 1 unit

Note: While ordering suffix "Z+I32" with MCCB MLFB for Frames VL160X to VL400 for all release types except ETU42 release.



## 3VL MCCB, ETU10, LI, Microprocessor based trip unit, Icu = 55kA, 415V AC, 50Hz

Frame size	Rated current (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit MRP* ₹	Type	Unit MRP* ₹	
VL 160	63	3VL2706-1SB36-0AA0	22450.-	3VL2706-1TA46-0AA0	29280.-	1
	100	3VL2710-1SB36-0AA0	22450.-	3VL2710-1TA46-0AA0	29280.-	1
	160	3VL2716-1SB36-0AA0	28500.-	3VL2716-1TA46-0AA0	39335.-	1
VL 250	200	3VL3720-1SB36-0AA0	37930.-	3VL3720-1TA46-0AA0	48705.-	1
	250	3VL3725-1SB36-0AA0	37930.-	3VL3725-1TA46-0AA0	48705.-	1
VL 400	315	3VL4731-1SB36-0AA0	41095.-	3VL4731-1TA46-0AA0	54395.-	1
	400	3VL4740-1SB36-0AA0	41095.-	3VL4740-1TA46-0AA0	54395.-	1
VL 630	630	3VL5763-1SB36-0AA0	46185.-	3VL5763-1TA46-0AA0	73120.-	1
VL 800	800	3VL6780-1SB36-0AA0	68115.-	3VL6780-1TA46-0AA0	96990.-	1
VL 1250	1000	3VL7710-1SB36-0AA0	93285.-	3VL7710-1TA46-0AA0	143220.-	1
	1250	3VL7712-1SB36-0AA0	119685.-	3VL7712-1TA46-0AA0	183660.-	1
VL 1600	1600	3VL8716-1SB30-0AA0	158890.-	3VL8716-1TA40-0AA0	215640.-	1

## 3VL MCCB, ETU10, LI, Microprocessor based trip unit, Icu = 70kA, 415V AC, 50 Hz

Frame size	Rated current (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit MRP* ₹	Type	Unit MRP* ₹	
VL 160	63	3VL2706-2SB36-0AA0	26935.-	3VL2706-2TA46-0AA0	33375.-	1
	100	3VL2710-2SB36-0AA0	26935.-	3VL2710-2TA46-0AA0	33375.-	1
	160	3VL2716-2SB36-0AA0	35325.-	3VL2716-2TA46-0AA0	45090.-	1
VL 250	200	3VL3720-2SB36-0AA0	39230.-	3VL3720-2TA46-0AA0	57130.-	1
	250	3VL3725-2SB36-0AA0	39230.-	3VL3725-2TA46-0AA0	57130.-	1
VL 400	315	3VL4731-2SB36-0AA0	43025.-	3VL4731-2TA46-0AA0	65580.-	1
	400	3VL4740-2SB36-0AA0	43025.-	3VL4740-2TA46-0AA0	65580.-	1
VL 630	630	3VL5763-2SB36-0AA0	51145.-	3VL5763-2TA46-0AA0	81415.-	1
VL 800	800	3VL6780-2SB36-0AA0	80895.-	3VL6780-2TA46-0AA0	106270.-	1
VL 1250	1000	3VL7710-2SB36-0AA0	123825.-	3VL7710-2TA46-0AA0	182625.-	1
	1250	3VL7712-2SB36-0AA0	146510.-	3VL7712-2TA46-0AA0	205325.-	1
VL 1600	1600	3VL8716-2SB30-0AA0	177475.-	3VL8716-2TA40-0AA0	228025.-	1

## 3VL MCCB, ETU12, LIG, Microprocessor based trip unit, Icu = 55kA, 415V AC, 50Hz

Frame size	Rated current (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit MRP* ₹	Type	Unit MRP* ₹	
VL 160	63	3VL2706-1SL36-0AA0	27110.-	3VL2706-1TN46-0AA0	34390.-	1
	100	3VL2710-1SL36-0AA0	27110.-	3VL2710-1TN46-0AA0	34390.-	1
	160	3VL2716-1SL36-0AA0	33385.-	3VL2716-1TN46-0AA0	44815.-	1
VL 250	200	3VL3720-1SL36-0AA0	46030.-	3VL3720-1TN46-0AA0	57650.-	1
	250	3VL3725-1SL36-0AA0	46030.-	3VL3725-1TN46-0AA0	57650.-	1
VL 400	315	3VL4731-1SL36-0AA0	49670.-	3VL4731-1TN46-0AA0	64780.-	1
	400	3VL4740-1SL36-0AA0	49670.-	3VL4740-1TN46-0AA0	64780.-	1
VL 630	630	3VL5763-1SL36-0AA0	53920.-	3VL5763-1TN46-0AA0	80355.-	1
VL 800	800	3VL6780-1SL36-0AA0	77330.-	3VL6780-1TN46-0AA0	105755.-	1
VL 1250	1000	3VL7710-1SL36-0AA0	102320.-	3VL7710-1TN46-0AA0	152220.-	1
	1250	3VL7712-1SL36-0AA0	127770.-	3VL7712-1TN46-0AA0	191195.-	1
VL 1600	1600	3VL8716-1SL30-0AA0	165550.-	3VL8716-1TN40-0AA0	222020.-	1

## 3VL MCCB, ETU12, LIG Microprocessor based trip unit, Icu = 70kA, 415V AC, 50Hz

Frame size	Rated current (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit MRP* ₹	Type	Unit MRP* ₹	
VL 160	63	3VL2706-2SL36-0AA0	31770.-	3VL2706-2TN46-0AA0	38635.-	1
	100	3VL2710-2SL36-0AA0	31770.-	3VL2710-2TN46-0AA0	38635.-	1
	160	3VL2716-2SL36-0AA0	40475.-	3VL2716-2TN46-0AA0	50810.-	1
VL 250	200	3VL3720-2SL36-0AA0	47390.-	3VL3720-2TN46-0AA0	66500.-	1
	250	3VL3725-2SL36-0AA0	47390.-	3VL3725-2TN46-0AA0	66500.-	1
VL 400	315	3VL4731-2SL36-0AA0	52795.-	3VL4731-2TN46-0AA0	76100.-	1
	400	3VL4740-2SL36-0AA0	52795.-	3VL4740-2TN46-0AA0	76100.-	1
VL 630	630	3VL5763-2SL36-0AA0	58700.-	3VL5763-2TN46-0AA0	88360.-	1
VL 800	800	3VL6780-2SL36-0AA0	89655.-	3VL6780-2TN46-0AA0	114700.-	1
VL 1250	1000	3VL7710-2SL36-0AA0	131745.-	3VL7710-2TN46-0AA0	190770.-	1
	1250	3VL7712-2SL36-0AA0	153610.-	3VL7712-2TN46-0AA0	212075.-	1
VL 1600	1600	3VL8716-2SL30-0AA0	183440.-	3VL8716-2TN40-0AA0	233935.-	1

L: Overload protection

I: Short circuit protection

G: Ground fault protection

**Note:** Std. Pkg. = 1 unit**Note:** While ordering suffix "Z+I32" with MCCB MLFB for Frames VL160X to VL400 for all release types except ETU42 release.

\* MRP - Maximum Retail Price

Siemens switchgear. Tried, tested, trusted.

**3VL MCCB, Magnetic trip unit (for short circuit protection), Icu = 55kA, 415V AC, 50Hz**

Frame size	Rated current I <sub>n</sub> (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit MRP* ₹	Type	Unit MRP* ₹	
VL400	400	3VL4740 - 1DE36 - 0AA0	31145.-	3VL4740 - 1EE46 - 0AA0	38105.-	1
VL630	630	3VL5763 - 1DE36 - 0AA0	34855.-	3VL5763 - 1EE46 - 0AA0	40465.-	1
VL800	800	3VL6780 - 1DE36 - 0AA0	55450.-	3VL6780 - 1EE46 - 0AA0	66555.-	1
VL1250	1250	3VL7712 - 1DE36 - 0AA0	92450.-	3VL7712 - 1EE46 - 0AA0	140745.-	1
VL1600	1600	3VL8716 - 1DE30 - 0AA0	147930.-	3VL8716 - 1EE40 - 0AA0	187150.-	1

**3VL MCCB, Magnetic trip unit (for short circuit protection), Icu = 70kA, 415V AC, 50Hz**

Frame size	Rated current I <sub>n</sub> (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit MRP* ₹	Type	Unit MRP* ₹	
VL400	400	3VL4740 - 2DE36 - 0AA0	35300.-	3VL4740 - 2EE46 - 0AA0	42690.-	1
VL630	630	3VL5763 - 2DE36 - 0AA0	40345.-	3VL5763 - 2EE46 - 0AA0	49535.-	1
VL800	800	3VL6780 - 2DE36 - 0AA0	66680.-	3VL6780 - 2EE46 - 0AA0	88980.-	1
VL1250	1250	3VL7712 - 2DE36 - 0AA0	120680.-	3VL7712 - 2EE46 - 0AA0	150175.-	1
VL1600	1600	3VL8716 - 2DE30 - 0AA0	152970.-	3VL8716 - 2EE40 - 0AA0	192755.-	1

**Accessories for 3VL**

Frame	VL 160 X / VL 160 / VL 250 / VL 400		VL 630 / VL 800 / VL 1250 / VL 1600		Std. pkg. (nos.)
	Accessory	Type	Unit MRP* ₹	Type	
Auxiliary switch	3VL9 400-2AB00 (1NO + 1NC)	1450.-	3VL9 800-2AC00 (2NO + 2NC)	2670.-	1
Auxiliary switch + Alarm switch	3VL9 400-2AD00 (1NO + 1NC & 1NO)	2240.-	3VL9 800-2AE00 (1NO + 1NC & 1NO)	3105.-	1
Under voltage release 110 V AC 220 - 250 V AC 415 V AC 110 V DC	3VL9 400-1UG00	3430.-	3VL9 800-1UG00	4060.-	1
	3VL9 400-1UH00	3430.-	3VL9 800-1UH00	4060.-	1
	3VL9 400-1UJ00	3430.-	3VL9 800-1UJ00	4060.-	1
	3VL9 400-1UR00	3430.-	3VL9 800-1UR00	4060.-	1
Shunt release 24 V DC 110 - 127 V DC 110 - 127 V AC 208 - 277 V AC	3VL9 400-1SC00	2580.-	3VL9 800-1SC00	3435.-	1
	3VL9 400-1SK00	2580.-	3VL9 800-1SK00	3435.-	1
	3VL9 400-1SR00	2580.-	3VL9 800-1SR00	3435.-	1
	3VL9 400-1ST00	2580.-	3VL9 800-1ST00	3435.-	1
Rotary drive kit (including 8UC handle with door interlock defeat & padlocking facility)	3VL9 .00-3HQ00		3VL9 600-3HQ00 (VL630-VL800)	3360.-	1
	1 (For VL 160X)	2055.-			
	3 (For VL 160/250)	2080.-	3VL9 800-3HF05 (VL1250-VL1600)	7645.-	1
Castell interlock kit* (To interlock two or more circuit breakers)	8UC60 70-1YQ.. (For VL160X/VL160/VL250)	3320.-	8UC60 70-2YQ.. (For VL630/VL800)	3405.-	1
	8UC60 70-2YQ.. (For VL400)	3405.-			
Motorised drive (Motorised operator-MO) 230-250V AC/DC	3VL9 .00-3ME10		Factory fitted assembly with MCCB for VL630/800 with Z option Z-M23 (MCCB prices additional)	21370.-	1
	1 (For VL160X)	14850.-			
	3 (For VL160/250)	16040.-			1
Motorised drive (Stored Energy Operator -SEO) 220-250V AC/DC	3VL9 .00-3MQ00		Factory fitted assembly with MCCB for VL1000/1600 with Z option Z-M23 (MCCB prices additional)	25900.-	1
	3 (For VL160X/VL160/VL250)	24680.-	3VL9 .00-3MQ00		
	4 (For VL 400)	33200.-	6 (For VL630-VL800)	41725.-	1
Spreader links (with phase barriers)	3VL9216 - 4ED30 (VL160X/VL160-3P)	955.-	3VL9500 - 4ED30 (VL630-3P)	1530.-	1
	3VL9216 - 4ED40 (VL160X/VL160-4P)	1165.-	3VL9500 - 4ED40 <sup>55</sup> (VL630-4P)	1860.-	1
	3VL9300 - 4ED30 (VL250-3P)	1270.-	3VL9600 - 4ED30 (VL800-3P)	1860.-	1
	3VL9300 - 4ED40 (VL250-4P)	1640.-	3VL9600 - 4ED40 <sup>55</sup> (VL800-4P)	2315.-	1
	3VL9400 - 4ED30 (VL400-3P)	1400.-	NA (for VL1250 / VL1600)		
	3VL9400 - 4ED40 (VL400-4P)	1755.-			

Note: # The 11th and 12th place of the type reference will indicate the alphabet type of lock & key. Combinations available are A, B, C, D, A-, -B, -C, AB, AC. 11th place will be A, B, C, D for castell lock type A, B, C, D respectively. 11th and 12 place will be A0, OB, OC, AB, AC for castell lock type A-, -B, -C, AB, AC respectively

Spreader link 1 set = 3 nos. links and 2 nos. phase barriers in case of 3 pole and 5 nos. links and 3 nos. phase barriers in case of 4 pole, <sup>55</sup> - 4 nos. links and 3 nos. phase barriers in case of 4 pole.

NA - Not Available

Note: Std. Pkg. = 1 unit

Please order in multiples of standard packing.



**SIEMENS**

# Electrical SCADA: The 'SMART' choice for Metering, Monitoring, Controlling and Energy Management

SENTRON powermanager software

'Electrical SCADA' supports 24x7 monitoring of power distribution system from a centralized location. With its controlling, analysis, recording and reporting functions it enhances the **operational efficiency, improving productivity and profitability**.

Our 'Electrical SCADA' solution (Software, switchgear and meters) is **TÜV certified** and supports seamless introduction, documentation & maintenance of your plant **in accordance with the provisions of ISO 50001** (standard governing energy management system).

#### Key Features:

- Single Line Diagram of power distribution network
- Monitoring and Controlling of circuit breakers from remote
- Analysis of energy consumption pattern, load trends, peaks
- Reporting real-time data & automated archiving
- Timely alerts and alarms on SCADA screen, e-mail, SMS

Contact [globalproducts.in@siemens.com](mailto:globalproducts.in@siemens.com) for FREE demo and software (30-day-trial).



[www.siemens.co.in](http://www.siemens.co.in)

Siemens switchgear. Tried, tested, trusted.

## Energy Management System

### (A) Hardware Solutions

#### Complete Range of Power Monitoring Device for LV and HV Network

##### Common Features of all devices

- IP65 from front
- Inbuilt Digital Inputs (DI) and Digital Outputs (DO)

#### PAC 3100: Power monitoring device with communication

- Display of instantaneous Maximum and Minimum values
- Measurement of Active & Reactive Power (Import / Export / Net)
- CT polarity reversal correction from the device

Description	Type#	Unit MRP* ₹
<b>PAC 3100</b> With AC/DC wide voltage power supply and screw terminals 110...240V AC +/- 10% Frequency 50/60Hz, 110...250V DC +/- 10%	7KM3133-0BA00-3AA0	23840.-



RS 485 MODBUS  
RTU port inbuilt

#### PAC 3200: Precise Energy Management Specialist

- Communication over PROFIBUS protocol for the process plant
- Dual Metering function
- PROFINET port for device level redundancy

Description	Type#	Unit MRP* ₹
<b>PAC 3200</b> With AC/DC wide voltage power supply and screw terminals 95...240V AC +/- 10% Frequency 50/60Hz, 110...340V DC +/- 10%	7KM2112-0BA00-3AA0	37490.-



RS 485 port  
for Profibus\*\*

Switched Profinet  
Module\*\*

#### PAC 4200: Ethernet based Power Quality Analyzer

- High speed Ethernet Interface (up to 100Mbps)
- Reliable event recording with Battery back up
- Built-in sliding window Maximum Demand Controller

Description	Type#	Unit MRP* ₹
<b>PAC 4200</b> With AC/DC wide voltage power supply and screw terminals 95...240V AC +/- 10% Frequency 50/60Hz, 110...340V DC +/- 10%	7KM4212-0BA00-3AA0	Upon Enquiry



Inbuilt Ethernet  
Port for MODBUS  
TCP/IP

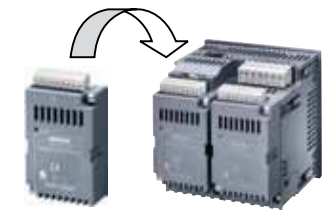
#### Expansion Modules (for PAC3200 and PAC4200)

Description	Type	Unit MRP * ₹
SENTRON PAC PROFIBUS DP expansion module	7KM9300-0AB00-0AA0	9980.-
SENTRON PAC RS485 expansion module for MODBUS RTU	7KM9300-0AM00-0AA0	7880.-
SENTRON PAC Switched PROFINET expansion module	7KM9300-0AE01-0AA0	Upon Enquiry
Digital Expansion Module 4DI/2DO <sup>5</sup>	7KM9200-0AB00-0AA0	Upon Enquiry

# For extra low DC voltage (22 ... 65 V DC ± 10 %) option, please contact your nearest Siemens partners.

\*\* To be ordered separately

<sup>5</sup> Can be used only with PAC 4200. Max. 2 Nos.  
(Max. 2 nos. can be connected if no addl. communication module is at rear).  
For exact configuration, please contact the nearest Sales Office.



Digital  
Expansion  
Module

Max 2x of 4DI/2DO  
modules connected  
with PAC 4200

### (B) Software Solution

Description	Unit MRP* ₹
SENTRON powermanager: Complete Energy Management Software	Upon Enquiry



Note: Std. Pkg. = 1 unit



# Ethernet based Energy Management System

## History

## Future

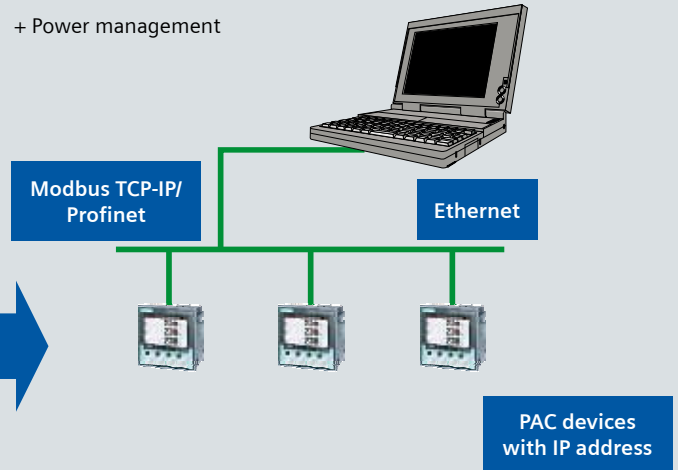
### Conventional System



- Limitation of number of devices connected
- Poor refresh time on PC/HMI due to lesser transmission speed (over Modbus RTU network) affects real-time data availability to the EMS
- Failure of Converter leads to data loss of all the devices in EMS

### Modular System

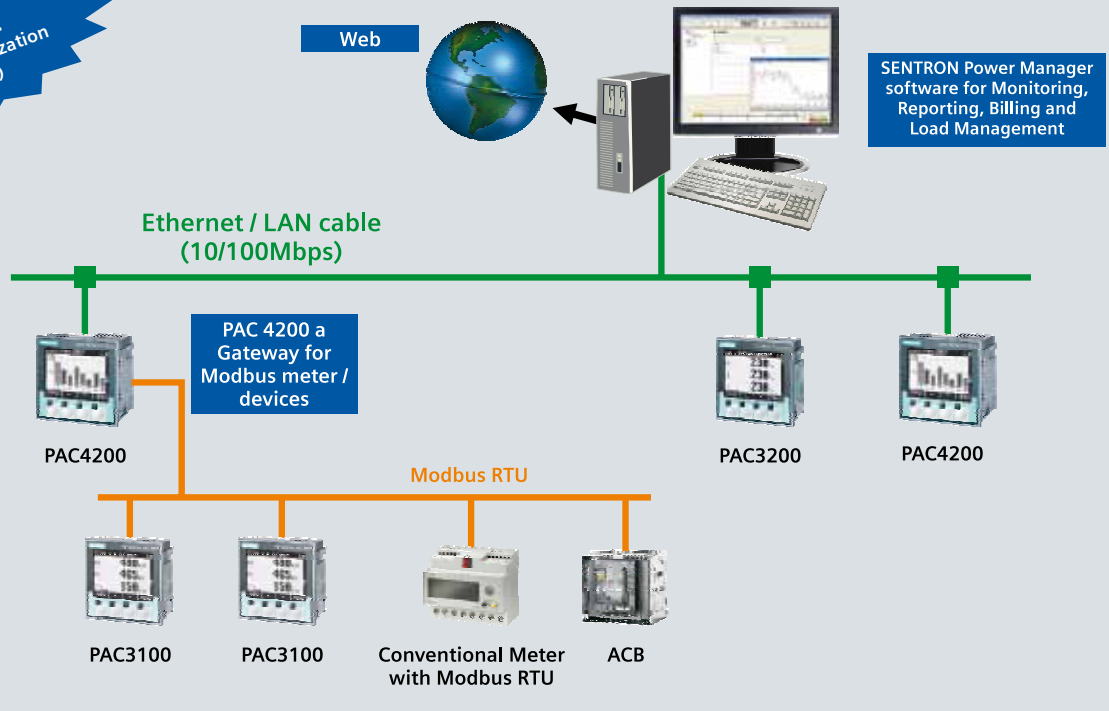
Monitoring  
+ Control  
+ Power management



- Unlimited no of devices can be connected over Ethernet.
- Unmatched data transmission speed upto 100 Mbps leading to refresh times within few secs on PC
- Intelligent PAC devices with Ethernet connectivity eliminates the need of converters thereby increasing availability of data to EMS

## Energy Management Systems for New / Existing users

Save up to 20%  
energy costs.  
(Measuring + Visualization  
+ Controlling)



- EMS Software is in accordance to EN 16001
- Energy and Power Quality Audits.
- Centralized Energy Management for Multi location sites.
- Solutions for Plants & Buildings.
- Cost Allocation and Billing solutions.

Every kWh of Energy saved reduces the Operating Cost of your System and keeps 530 g CO<sub>2</sub><sup>#</sup> out of the environment.

<sup>#</sup> source: IEA & IPCC

## 3NP1 Fuse Switch Disconnecter up to 630A

- 160-630A in 3- pole versions
- Rated voltage of 690V AC/440V DC
- Suitable for floor & busbar mounting
- With mechanical & electronic fuse monitoring



### Application:

- Machine Protection
- Frequency Converter Protection
- Compensation Systems (Capacitor Panels)
- Distribution Boards and Switchboards

### Benefits:

- Cost and space savings thanks to use of a smaller size
- Selection charts with semiconductor fuses in accordance with IEC 60269-2-
- Direct connection of stripped conductors supports considerably faster mounting / installation
- Ease in mounting with direct bus bar mounting option
- Leading auxiliary switches with respect to main contacts available

### Floor mounting

Rated current (A)	Suitable for DIN fuse size	Connection	Type	Unit MRP* ₹
160	000	Box terminal	3NP1123-1CA20	4190.-
160	00 / 000	Flat connector	3NP1133-1CA10	4365.-
160	00 / 000	Box terminal	3NP1133-1CA20	5235.-
250	1 and 0	Flat connector	3NP1143-1DA10	12725.-
250	1 and 0	Box terminal	3NP1143-1DA20	14975.-
400	2 and 1	Flat connector	3NP1153-1DA10	17480.-
630	3 and 2	Flat connector	3NP1163-1DA10	23495.-

### Auxillary Contact (1 C/O type)

Size	MLFB	Unit MRP* ₹
000	3NP1920-1FA00	850.-
00	3NP1930-1FA00	850.-
1	3NP1940-1FA00	925.-
2	3NP1940-1FA00	925.-
3	3NP1940-1FA00	925.-

All MLFBs with standard package 1 unit

### 40 mm busbar system

Rated current (A)	Suitable for DIN fuse size	Connection	Type	Unit MRP* ₹
160	000	Box terminal	3NP1123-1BB20	5865.-
160	00 / 000	Flat connector	3NP1133-1BB10	6645.-
160	00 / 000	Box terminal	3NP1133-1BB20	7075.-



### 3NP1 with in built mechanical fuse monitoring

Rated current (A)	Suitable for DIN fuse size	Connection	Type	Unit MRP* ₹
160	000/00	Flat Terminals	3NP1133-1CA11	14985.-
250	1	Flat Terminals	3NP1143-1DA11	22795.-
400	1&2	Flat Terminals	3NP1153-1DA11	27265.-
630	2&3	Flat Terminals	3NP1163-1DA11	33030.-



For inbuilt electronic fuse & voltage monitoring, please contact our nearest Siemens office



## Superswitch 3KL/3KT/3KA

- Wide range: upto 800A in SDF/1600A in SD
- Suitable for isolation as per IEC60947
- Suitable for power distribution as well as motor feeders
- Available in DP, TP, TPN & TPSN<sup>#</sup> version
- Handles with IP65 Ingress protection



### Switch disconnector fuse, 3KL8, 2 Pole (in Open Execution DP)



### Switch Disconnector fuse, 3KL8<sup>1)</sup>, 3 Pole, for Motor Feeder Protection (in Open Execution TP)

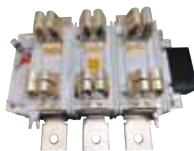
Rated current I <sub>e</sub> @ 440V 50Hz	SDF suitable for DIN type HRC Fuses	Unit MRP* ₹	Std. pkg. (nos.)	Rated current I <sub>e</sub> @ 690V AC, 50Hz	SDF suitable for DIN type HRC Fuses	Unit MRP* ₹	Std. pkg. (nos.)
100A	3KL8211-2HA00	5170.-	1	20A	3KL8111-1TA00	1945.-	1
125A	3KL8221-2HA00	6575.-	1	32A	3KL8121-1TA00	1975.-	1
160A	3KL8231-2HA00	6830.-	1	63A	3KL8151-1TA00	2815.-	1
200A	3KL8311-2UA00	8610.-	1	100A	3KL8211-1TA00	5515.-	1
250A	3KL8321-2UA00	10330.-	1	125A	3KL8221-1TA00	6840.-	1
315A	3KL8331-2UA00	13155.-	1	160A	3KL8231-1TA00	7715.-	1
400A	3KL8341-2UA00	15690.-	1	200A	3KL8311-1UA00	10560.-	1
500A	3KL8411-2UA00	21600.-	1	250A	3KL8321-1UA00	12535.-	1
630A	3KL8421-2UA00	25335.-	1	315A	3KL8331-1UA00	15490.-	1
800A	3KL8431-2UA00	29240.-	1	400A <sup>§</sup>	3KL8341-1UA00	18660.-	1
				500A	3KL8411-1UA00	28665.-	1
				630A	3KL8421-1UA00	29990.-	1
				800A <sup>§</sup>	3KL8431-1UA00	32495.-	1

For 2 pole version of 3KT8 please contact our nearest Siemens Sales office

3KL8 TP SDFs: Unit MRP\*s are inclusive of front drive (Handle) kit and phase barriers

### Switch disconnector fuse: 3KL8<sup>1)</sup> for power distribution and motor protection (in Open Execution TPN)

Rated current I <sub>e</sub> @ 690V AC 50Hz	SDF suitable for DIN type HRC Fuses	Unit MRP* ₹	SDF suitable for BS type HRC Fuses	Unit MRP* ₹	SDF suitable for cylindrical type HRC Fuses	Unit MRP* ₹	Std. pkg. (nos.)
20A	3KL8111-3HA00	2130.-	3KL8111-3HJ00	2070	3KL8111-3HC00	2105.-	1
32A	3KL8121-3HA00	2190.-	3KL8121-3HJ00	2140	3KL8121-3HC00	2165.-	1
63A	3KL8151-3HA00	3100.-	3KL8151-3HJ00	2990	3KL8151-3HC00	3015.-	1
100A	3KL8211-3HA00	6175.-	3KL8211-3HJ00	6060	-	-	1
125A	3KL8221-3HA00	8085.-	3KL8221-3HJ00	7975	-	-	1
160A	3KL8231-3HA00	8810.-	3KL8231-3HJ00	8700	-	-	1
200A	3KL8311-3UA00	11265.-	3KL8311-3UJ00	11375	-	-	1
250A	3KL8321-3UA00	13375.-	3KL8321-3UJ00	13485	-	-	1
315A	3KL8331-3UA00	16525.-	3KL8331-3UJ00	16635	-	-	1
400A <sup>§</sup>	3KL8341-3UA00	19915.-	3KL8341-3UJ00	20020	-	-	1
500A	3KL8411-3UA00	30870.-	3KL8411-3UJ00	30985	-	-	1
630A	3KL8421-3UA00	32005.-	3KL8421-3UJ00	32110	-	-	1
800A <sup>§</sup>	3KL8431-3UA00	34680.-	3KL8431-3UJ00	34790	-	-	1



### Switch Disconnector fuse, 3KL8<sup>1)</sup>, TPSN (in Open Execution TPSN<sup>2)</sup>)<sup>#</sup>

Rated current I <sub>e</sub> @ 690V AC, 50Hz	SDF suitable for DIN type HRC Fuses	Unit MRP* ₹	Std. pkg. (nos.)
200A	3KL8311-4UA00	11825.-	1
250A	3KL8321-4UA00	13775.-	1
315A	3KL8331-4UA00	17020.-	1
400A <sup>§</sup>	3KL8341-4UA00	20510.-	1
500A	3KL8411-4UA00	31800.-	1
630A	3KL8421-4UA00	32960.-	1
800A <sup>§</sup>	3KL8431-4UA00	35720.-	1

3KL8 TPN SDFs: Unit MRP\*s are inclusive of front drive (Handle) kit, fuse cover, terminal cover / isolable neutral cover, and phase barriers.

3KL8 TPSN SDFs: Unit MRP\*s are inclusive of front drive (Handle) kit and phase barriers

<sup>#</sup> TPSN is 3pole with switched neutral

<sup>§</sup> Rating AC23A @ 550V, this can be utilised to AC23B @ 690V.

<sup>1)</sup> 3KL 8 is rated for 690V, 50Hz, AC23A Utilisation Category.

<sup>2)</sup> For ratings upto 160A, add on switched neutral kit to be used.

**Note : All SDF Unit MRPs are without fuses**

Std. Pkg. = 1 unit

Siemens switchgear. Tried, tested, trusted.

## Superswitch 3KL/3KT/3KA

- With roller contact mechanism
- With POSITIVE OFF indication
- Suitable for both AC and DC voltage networks



### Switch disconnecter fuse in SS Enclosure: 3KL8<sup>1)</sup> (TPN)

Rated current I <sub>n</sub> @ 690V AC, 50Hz	SDF Suitable for DIN Type HRC Fuses	Unit MRP* ₹	Std. pkg. (nos.)
20A	3KL8111-3HA10	4460.-	1
32A	3KL8121-3HA10	4585.-	1
63A	3KL8151-3HA10	5445.-	1
100A	3KL8211-3HA10	8960.-	1
125A	3KL8221-3HA10	10630.-	1
160A	3KL8231-3HA10	11400.-	1
200A	3KL8311-3UA10	15040.-	1
250A	3KL8321-3UA10	17220.-	1
315A	3KL8331-3UA10	20480.-	1
400A <sup>5</sup>	3KL8341-3UA10	23815.-	1
500A	3KL8411-3UA10	36040.-	1
630A	3KL8421-3UA10	38275.-	1
800A <sup>5</sup>	3KL8431-3UA10	41095.-	1

### Switch disconnecter: 3KA8<sup>^</sup> (in Open Execution TPN)

Rated current I <sub>n</sub> @ 690V AC, 50Hz	Switch Disconnecter	Unit MRP* ₹	Std. pkg. (nos.)
63A	3KA8151-3HE00	3250.-	1
100A	3KA8211-3HE00	5560.-	1
125A	3KA8221-3HE00	6945.-	1
160A	3KA8231-3HE00	6995.-	1
200A	3KA8311-3UE00	9430.-	1
250A	3KA8321-3UE00	12035.-	1
400A	3KA8341-3UE00	17730.-	1
630A	3KA8351-3UE00	25925.-	1
800A	3KA8431-3UE00	30750.-	1
1000A	3KA8441-3UE00	38430.-	1
1200A <sup>@</sup>	3KA8451-3UE00	49000.-	1
1600A <sup>@</sup>	3KA8461-3UE00	65420.-	1

SS stands for Sheet Steel.

SDF's in enclosure are without fuse cover & necessary hardware.



### Switch disconnecter fuse: 3KT8<sup>5</sup> for power distribution (in Open Execution TPN)

Rated current I <sub>n</sub> @ 440V AC 50Hz	SDF suitable for DIN type HRC Fuses	Unit MRP* ₹	SDF suitable for BS type HRC Fuses	Unit MRP* ₹	SDF suitable for cylindrical type HRC Fuses	Unit MRP* ₹	Std. pkg. (nos.)
32A	3KT8121-3HA00	2160.-	3KT8121-3HJ00	2110.-	3KT8121-3HC00	2145.-	1
50A	3KT8141-3HA00	2760.-	3KT8141-3HJ00	2650.-	3KT8141-3HC00	2540.-	1
80A	3KT8161-3HA00	4855.-	3KT8161-3HJ00	4745.-	-	-	1
100A	3KT8211-3HA00	6125.-	3KT8211-3HJ00	6015.-	-	-	1
125A	3KT8221-3HA00	8020.-	3KT8221-3HJ00	7910.-	-	-	1
160A	3KT8231-3HA00	8755.-	3KT8231-3HJ00	8645.-	-	-	1
200A	3KT8311-3UA00	11195.-	3KT8311-3UJ00	11300.-	-	-	1
250A	3KT8321-3UA00	13285.-	3KT8321-3UJ00	13390.-	-	-	1
315A	3KT8331-3UA00	16420.-	3KT8331-3UJ00	16530.-	-	-	1
400A	3KT8341-3UA00	19795.-	3KT8341-3UJ00	19905.-	-	-	1
500A	3KT8411-3UA00	30540.-	3KT8411-3UJ00	30650.-	-	-	1
630A	3KT8421-3UA00	31825.-	3KT8421-3UJ00	31935.-	-	-	1
800A	3KT8431-3UA00	34495.-	3KT8431-3UJ00	34605.-	-	-	1

## SS Enclosure for 3KT/3KL/3KA



Current rating	Type	Unit MRP* ₹	Std. pkg. (nos.)
20A- 80A	3KX8155-4AC	2065.-	1
100A-160A	3KX8235-4AC	2415.-	1
200A-400A	3KX8345-4AC	3215.-	1
500A-800A	3KX8435-4AC	4940.-	1

Please note: SDF/SD to be ordered separately.

SS stands for Sheet Steel

Note:

SDFs 3KT8 : Unit MRPs\* inclusive of front drive ( handle) kit and phase barriers  
\$ 3KT8 is rated for 440V, 50Hz, AC22A Utilisation Category. Equivalent AC23A ratings also available.

^ 3KA8 is rated for 690V, 50Hz, AC23A Utilisation Category.

@ rating AC21 at 500V, 50Hz

Std. Pkg. = 1 unit

## Accessories for Superswitch 3KT8/3KL8/3KA8

Description	3KT812/14/16 3KL811/12/15 3KA815	Unit MRP* ₹	3KT821/22/23 3KL821/22/23 3KA821/22/23	Unit MRP* ₹	3KT831/32/33/34 3KL831/32/33/34 3KA831/32/34/35	Unit MRP* ₹	3KT841/42/43 3KL841/42/43 3KA8431/44/45/46	Unit MRP* ₹	Std. pkg. (nos.)
Fuse Cover	3KX8150-0AC	250.-	3KX8230-0AC	365.-	3KX8340-0AC	530.-	3KX8430-0AC	755.-	1
Terminal Cover (1 set)			3KX8231-0AC	305.-	3KX8341-0AC	595.-	3KX8431-0AC	690.-	1
Isolable Neutral cover			3KX8232-0AC	150.-	3KX8342-0AC	245.-	3KX8432-0AC	305.-	1
Phase Barrier	3KX8153-0AC	105.-	3KX8233-0AC	105.-	3KX8343-0AC	145.-	3KX8433-0AC	200.-	1
Auxiliary Switch (1NO+1NC)	3SB5400-0A	150.-	3KX3522-1YC	470.-	3KX3552-1YC	565.-	3KX3582-1YC	690.-	1
Auxiliary Switch (2NO+2NC)			3KX3522-1YD	845.-	3KX3552-1YD	1225.-	3KX3582-1YD	1330.-	1
Auxiliary switch cover	3KX8154-0AC	45.-	3KX8234-0AC	45.-					1
Front Drive (Handle)	8UC616 (TP SDF)	625.-	8UC626 (TP SDF)	710.-	8UC63	1085.-	8UC64	1585.-	1
	8UC68	670.-	8UC68	670.-					1
Add on Switched 4th Pole	3KX8155-5AC	1170.-	3KX3528-1YN	1215.-	3KX3558-1YN	1615.-	3KX3588-1YN (3KA8431/44)	1815.-	1
							3KX8465-6AC (3KA845/46)	1815.-	1
Add on neutral link	3KX8125-7AC (3KL811/3KT812)	145.-	3KX8225-7AC (3KL821/822) (3KA821/822) (3KT821/3KT822)	150.-	3KX8345-7AC (3KL831/2/3/4) (3KA831/2/3/4)	415.-	3KX8435-7AC (3KL841/2/3) (3KA842/3/4/5)	650.-	1
	3KX8155-7AC (3KL812/3KA815)	145.-	3KX8235-7AC (3KL823) (3KA823) (3KT823)	195.-					1
Add-on Isolable neutral	3KX8125-6AC (3KL811/ 3KT812)	225.-	3KX8225-6AC (3KL821/822) (3KA821/822) (3KT821/3KT822)	325.-	3KX8315-6AC (3KL831) (3KA831)	600.-	3KX8425-6AC (3KL841/42) 3KA835)	940.-	1
					360	600.-			
	3KX8155-6AC (3KL812/3KA815) (3KT814/816)	225	3KX8235-6AC (3KL823) (3KA823) (3KT823)	360.-	3KX8345-6AC (3KL834)(3KA834)	770.-	3KX8435-6AC (3KL843/3KA843)	1170.-	1
Key interlock					3KX3588-1YP(.)*	1540.-	3KX3588-1YP(.)*	1540.-	1
Depth setting template					8UC6046	115.-	8UC6046	115.-	1
DIN Rail mounting kit	3KX8155-3AC	1260.-							1
Fuse Monitor	3VU1340-1MS00	3465.-	3VU1340-1MS00	3465.-	3VU1340-1MS00	3465.-	3VU1340-1MS00	3465.-	1
Adapter Plate to replace old 3KL with 3KL8	3KX8155-1AC	340.-							1
Fuse safety Barrier	3KX81501AC	75.-	3KX82301AC	105.-					1

# Type of keys are Type A - F depending on the last digit (.) to be replaced by letters A - F.

Note: Std. Pkg. = 1 unit

## Fuse selection guide For SuperSwitch

Rated current in (A)	SDF type	DIN fuse size	DIN fuse type	BS fuse size	BS fuse type	NFC fuse size
20A	3KL8111	00/000	3NA78	A2	TSA/TIA	14X51
32A	3KL/ 3KT8121	00/000	3NA78	A2	TSA/TIA	14X51
50A	3KT8141	00/000	3NA78	A3	TIS/TSS	14X51
63A	3KL8151	00/000	3NA78	A3	TIS/TSS	14X51
80A	3KT8161	00/000	3NA78	A3	TSDS/TIS/TSS	-
100A	3KL/ 3KT8211	00/000	3NA78	A4	TCP	-
125A	3KL/ 3KT8221	00/000	3NA78	A4	TCP/TSFP	-
160A	3KL/ 3KT8231	00/000	3NA78	A4	TCP/TSFP	-
200A	3KL/ 3KT8311	1 - 2	3NA71, 72	B2	TSF/TF	-
250A	3KL/ 3KT8321	1 - 2	3NA71, 72	B2/B3/B4	TSF/TF/TKF/TSK	-
315A	3KL/ 3KT8331	1 - 2	3NA72	B2/B3/B4	TSF/TF/TKF/TSK	-
400A	3KL/ 3KT8341	1 - 2	3NA72	B2/B3/B4	TSF/TF/TKF/TSK/TFM	-
500A	3KL/ 3KT8411	3	3NA33	C1/C2	TTM	-
630A	3KL/ 3KT8421	3	3NA33	C1/C2	TTM	-
800A	3KL/ 3KT8431	3	3NA33	C1/C2	TSL5	-

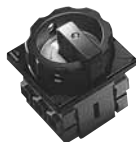
## Main control and EMERGENCY STOP switches 3LD<sup>1)</sup>

- Rated current range: 16A-250A
- Conforms to IEC 60947-3 / UL508
- Can be used for motor & power distribution application



### Main and EMERGENCY-STOP switches with rotary operating mechanism

Front mounting - Four holes  
Lockable in OFF position with upto 3 padlocks,  
Degree of Protection IP65



No of Poles	Rated current (A) Ie AC21A	Motor KW AC 23A, 380....440V, 50/60Hz	Type	Unit MRP* ₹
3	16	7.5	3LD2 003-0TK5□	1765.-
	25	9.5	3LD2 103-0TK5□	1955.-
	32	11.5	3LD2 203-0TK5□	2180.-
	63	22	3LD2 504-0TK5□	3735.-
	100	37	3LD2 704-0TK5□	5665.-
	125	45	3LD2 804-0TK5□	7215.-
	160	75	3LD2 305-0TK1□	Upon enquiry
	250	132	3LD2 405-0TK1□	Upon enquiry

□ - 1: Black OR  
□ - 3: Red/yellow

### Main control and EMERGENCY-STOP switches with selector switch operating mechanism

Front mounting - Four hole mounting  
Lockable in OFF position with upto 2 padlocks,  
Degree of Protection IP65,  
Including terminal cover for incoming side



No of Poles	Rated current (A) Ie AC21A	Motor KW AC 23A, 380....440V, 50/60Hz	Type	Unit MRP* ₹
3	16	7.5	3LD2 022-0TK1□	1580.-
	25	9.5	3LD2 122-0TK1□	1735.-
	32	11.5	3LD2 222-0TK1□	2095.-

□ - 1: Black OR  
□ - 3: Red/yellow

### Changeover switches with selector switch operating mechanism

Front mounting - Four hole mounting  
Selector switch cannot be locked  
Degree of Protection IP65  
Black Actuator



No of Poles	Rated current (A) Ie AC21A	Motor KW AC 23A, 380....440V, 50/60Hz	Type	Unit MRP* ₹
3	25	9.5	3LD2 123-7UK01	3870.-
	32	11.5	3LD2 223-7UK01	4235.-
	63	22	3LD2 524-7UK01	7005.-
	100	37	3LD2 724-7UK01	13030.-
	160	75	3LD2 305-7UK01	Upon enquiry
	250	132	3LD2 305-7UK01	Upon enquiry

### Main control and EMERGENCY-STOP switches

In Moulded plastic enclosures  
Lockable in OFF position with upto 3 padlocks,  
Degree of Protection IP65,  
with centre hole mounting  
with N and/or PE ground terminals



No of Poles	Rated current (A) Ie AC21A	Motor KW AC 23A, 380....440V, 50/60Hz	Type	Unit MRP* ₹
3	16	7.5	3LD2 064-0TB5□	2515.-
	25	9.5	3LD2 164-0TB5□	2735.-
	32	11.5	3LD2 264-0TB5□	3250.-
	63	22	3LD2 565-0TB5□	5375.-
	100	37	3LD2 766-0TB5□	12220.-
	125	45	3LD2 866-0TB5□	22120.-

□ - 1: Black OR  
□ - 3: Red/yellow

### Main and EMERGENCY-STOP switches with door coupling rotary operating mechanism

Panel mounting with 300mm switch shaft -  
Four hole mounting  
Lockable in OFF position with upto 3 padlocks,  
Degree of Protection IP65  
Including terminal cover for incoming side



No of Poles	Rated current (A) Ie AC21A	Motor KW AC 23A, 380....440V, 50/60Hz	Type	Unit MRP* ₹
3	16	7.5	3LD2 013-0TK5□	2825.-
	25	9.5	3LD2 113-0TK5□	3140.-
	32	11.5	3LD2 213-0TK5□	3465.-
	63	22	3LD2 514-0TK5□	4155.-
	100	37	3LD2 714-0TK5□	6830.-
	125	45	3LD2 814-0TK5□	8530.-
	160	75	3LD2 318-1TL1□	Upon enquiry
	250	132	3LD2 418-1TL1□	Upon enquiry

□ - 1: Black OR  
□ - 3: Red/yellow

<sup>1)</sup> All MLFBs with standard package 1 unit

# 3LD23/24 knob operated mechanism

## Accessories for 3LD

Mounting	Description	For Switch	Type	Unit MRP* ₹	Std. pkg. (nos.)
For front mounting	Add on switched 4th pole (N Conductor Leading switch ON, delayed switch OFF)	3LD2 1 and 3LD2 2	3LD9 220-0B	785.-	1
		3LD2 5	3LD9 250-0BA	1155.-	1
		3LD2 7 and 3LD2 8	3LD9 280-0B	1435.-	1
	N or PE terminal Continuous	3LD2 0	3LD9 200-2B	520.-	1
		3LD2 1 and 3LD2 2	3LD9 220-2B	595.-	1
		3LD2 5	3LD9 250-2BA	790.-	1
	Auxiliary switches For mounting on left and/or right 1NO+1NC	3LD2 7 and 3LD2 8	3LD9 280-2B	965.-	1
		3LD2 0, 3LD2 1, 3LD2 2, 3LD2 5, 3LD2 7 and 3LD2 8	3LD9 200-5B	875.-	1
	For floor mounting or 3LD moulded plastic enclosures	Add on switched 4th pole (N Conductor Leading switch ON, delayed switch OFF)	3LD2 1 and 3LD2 2	3LD9 220-0C	785.-
3LD2 5			3LD9 250-0CA	1155.-	1
3LD2 7 and 3LD2 8			3LD9 280-0C	1435.-	1
N or PE terminal Continuous		3LD2 0	3LD9 200-2C	710.-	1
		3LD2 1 and 3LD2 2	3LD9 220-2C	595.-	1
		3LD2 5	3LD9 250-2CA	790.-	1
Auxiliary switches For mounting on left and/or right 1NO+1NC		3LD2 7 and 3LD2 8	3LD9 280-2C	965.-	1
		3LD2 0, 3LD2 1, 3LD2 2, 3LD2 5, 3LD2 7 and 3LD2 8	3LD9 200-5C	825.-	1
Terminal cover for touch protection can be snapped on at top & bottom for front and floor mounting		4 pole	3LD2 0	3LD9 201-1A	265.-
	3 pole	3LD2 1 and 3LD2 2	3LD9 221-0A	245.-	4
	3 pole	3LD2 5	3LD9 251-0A	270.-	4
	1 pole	3LD2 7 and 3LD2 8	3LD9 281-2A	130.-	4

Also available: 3LD for Solar Photo voltaic applications. Please contact your nearest Siemens partner for more details.

## Motor control switches 3LA0

Description	Motor output 415V, 50Hz, 3Ph	Type	Unit MRP* ₹	Std. pkg. (nos.)	
					kW
Open execution	On/Off	7.5	■ 3LA0 201-1YA	1415.-	10
		30	■ 3LA0 601-1YB	3290.-	5
	System selector	5.5	■ 3LA0 202-1YA	1620.-	10
		30	3LA0 602-1YB	4605.-	5
	Reversing	5.5	■ 3LA0 203-1YA	1620.-	10
		30	■ 3LA0 603-1YB	4605.-	5
	Star-delta	12	3LA0 204-5YA	2275.-	10
		30	3LA0 604-1YB	6265.-	5
	2 speed pole changing i) Separate windings ii) Dahlander	5.5	3LA0 205-2YA	1620.-	10
		5.5	3LA0 205-1YA	2180.-	10
5.5		3LA0 205-3YA	3130.-	10	
In sheet steel housing	On/Off	7.5	■ 3LA0 221-1YA	1920.-	1
		30	■ 3LA0 621-1YB	4950.-	1
	System selector	5.5	3LA0 222-1YA	2225.-	1
Reversing	5.5	■ 3LA0 223-1YA	2630.-	1	

## Heavy duty switches 3LA0

No. of poles	Rated current of switch A AC 23A	Open execution		
		Type	MRP* ₹	Std. pkg. (nos.)
2	25*	■ 3LA0 205-4YA	970.-	10
	63	3LA0 605-1YB	2330.-	5
4	25*	■ 3LA0 205-5YA	1620.-	10
	63	■ 3LA0 605-2YB	4250.-	5

# AC22A=25A, AC23A = 16A

\* MRP - Maximum Retail Price



## Spares & accessories for motor control switches

Description	Type	Unit MRP* ₹	Std. pkg. (nos.)
Ball handle – Black	■ 3LX0 211-1YA	85.-	10
Machine handle – Black	3LX0 611-2YA	230.-	10
Indicating dial for size 2	■ 3LX0 220-1YA	65.-	10
Indicating dial for size 6	■ 3LX0 620-1YA	65.-	10
Catching lever for the drive mechanism of size 2 switch (2 nos. reqd. per switch)	3LY0 220-2YA	65.-	10
Tension spring for the drive mechanism of size 2 switch	3LY0 210-1YA	50.-	10

\*\* All parts supplied loose in polythene bags.

## Control switches 3ST

Switch	Description	Type	Unit MRP* ₹	Std. pkg. (nos.)
2-Pole On-Off <sup>1), 2)</sup> 3-Pole On-Off <sup>1), 2)</sup>	415V, 50Hz/8.5A	■ 3ST1 400-0AF08	475.-	10
		■ 3ST1 400-1AH08	585.-	10
Ammeter selector Voltmeter selector	0-L1-L2-L3 0-L1L2-L2L3-L3L1	■ 3ST1 400-2RQ08	870.-	10
		■ 3ST1 400-1RK08	610.-	10

1) 12th place code '8' represents black knob. Replace it by '9' for red knob.

2) 9th place code 'A' represents rotation < 360°. For 360° rotation, replace it by 'B'





■ Stock items



# Betagard 5SL6 Miniature Circuit Breakers



- 240/415V AC, 50...60Hz can be used in systems upto 60V DC, 1P and 110V DC, 2P
- Standards: IS/IEC 60898-1:2002
- Available in both B and C characteristics
- With ISI marking: CM/L No. 2255548

7500	Rated Current In (A)	MW#	Type B characteristics	Type C characteristics	Std. Pkg. (Nos.)	
	1 Pole	1	–	5SL61057RC	1/12	
	0.5	1	–	5SL61017RC	1/12	
	1	1	–	5SL61027RC	1/12	
	2	1	–	5SL61037RC	1/12	
	3	1	–	5SL61047RC	1/12	
	4	1	–	5SL61067RC	1/12	
	6	1	■	5SL61066RC	1/12	
	8	1	■	–	5SL61087RC	1/12
	10	1	■	5SL61106RC	1/12	
	13	1	■	–	5SL61137RC	1/12
	16	1	■	5SL61166RC	1/12	
	20	1	■	5SL61206RC	1/12	
	25	1	■	5SL61256RC	1/12	
	32	1	■	5SL61326RC	1/12	
	40	1	■	5SL61406RC	1/12	
50	1	■	5SL61506RC	1/12		
63	1	■	5SL61636RC	5SL61637RC	1/12	
	2 Pole	2	–	5SL62057RC	1/6	
	0.5	2	–	5SL62017RC	1/6	
	1	2	■	–	5SL62027RC	1/6
	2	2	■	–	5SL62037RC	1/6
	3	2	■	–	5SL62047RC	1/6
	4	2	■	–	5SL62067RC	1/6
	6	2	■	5SL62066RC	5SL62087RC	1/6
	8	2	■	–	5SL62107RC	1/6
	10	2	■	5SL62106RC	5SL62137RC	1/6
	13	2	■	–	5SL62167RC	1/6
	16	2	■	5SL62166RC	5SL62207RC	1/6
	20	2	■	5SL62206RC	5SL62257RC	1/6
	25	2	■	5SL62256RC	5SL62327RC	1/6
	32	2	■	5SL62326RC	5SL62407RC	1/6
	40	2	■	5SL62406RC	5SL62507RC	1/6
50	2	■	5SL62506RC	5SL62637RC	1/6	
63	2	■	5SL62636RC	5SL62637RC	1/6	
	3 Pole	3	–	5SL63057RC	1/4	
	0.5	3	–	5SL63017RC	1/4	
	1	3	–	5SL63027RC	1/4	
	2	3	–	5SL63047RC	1/4	
	4	3	–	5SL63067RC	1/4	
	6	3	■	5SL63066RC	5SL63107RC	1/4
	10	3	■	5SL63106RC	5SL63167RC	1/4
	16	3	■	5SL63166RC	5SL63207RC	1/4
	20	3	■	5SL63206RC	5SL63257RC	1/4
	25	3	■	5SL63256RC	5SL63327RC	1/4
	32	3	■	5SL63326RC	5SL63407RC	1/4
	40	3	■	5SL63406RC	5SL63507RC	1/4
	50	3	■	5SL63506RC	5SL63637RC	1/4
	63	3	■	5SL63636RC	5SL63637RC	1/4
		4 Pole	4	–	5SL64057RC	1/3
0.5		4	–	5SL64017RC	1/3	
1		4	–	5SL64027RC	1/3	
2		4	–	5SL64047RC	1/3	
4		4	–	5SL64067RC	1/3	
6		4	■	5SL64066RC	5SL64107RC	1/3
10		4	■	5SL64106RC	5SL64167RC	1/3
16		4	■	5SL64166RC	5SL64207RC	1/3
20		4	■	5SL64206RC	5SL64257RC	1/3
25		4	■	5SL64256RC	5SL64327RC	1/3
32		4	■	5SL64326RC	5SL64407RC	1/3
40		4	■	5SL64406RC	5SL64507RC	1/3
50		4	■	5SL64506RC	5SL64637RC	1/3
63		4	■	5SL64636RC	5SL64637RC	1/3

### Key features

- SLR (Slide Latch Release) feature for tool free removal of MCB from DIN rail.
- Protection cover for terminals
- Ergonomically designed lever
- Very low watt loss values

For MRP, please contact your nearest Siemens partner or refer latest "MRP\* List- Electrical Installation A to Z

# 1 MW (Module Width) = 18mm

# SIEMENS



With  
SLR

## Betagard - Inspiring safety

Betagard 5SL Miniature Circuit Breakers and Betagard Distribution Boards

### Betagard 5SL Miniature Circuit Breakers

- Patented SLR (Slide Latch Release) feature - a new technology for MCB removal from DIN rail
- Unique 35 mm<sup>2</sup> rectangular terminal with safety shutter for safe installation
- Accessories – Auxiliary contact, fault signaling contact, Rotary handle and lever locking device for variety of applications
- Complete range – 'B' & 'C' Characteristic up to 63A

### Betagard Distribution Boards

- New look, attractive and stylish design to suit any décor
- Wide range with single door, metal double door and acrylic window options
- DBs with type tested design and tested at third party neutral laboratories
- Studded with features for safety, style and ease during installation and maintenance



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[www.siemens.co.in](http://www.siemens.co.in)

## Betagard Miniature Circuit Breakers

### 5SL4/5SX4/5SJ4/5SP4, 10kA with C/D characteristics<sup>5</sup>

240/415V AC, 50...60Hz can be used in systems upto 60VDC, 1P and 110VDC, 2P

Breaking capacity: 10kA as per IS/IEC60898-1



	Rated current In (A)	Type C char.	Type D char.		Rated current In (A)	Type C char.	Type D char.
1 pole	0.5	5SL41057RC	5SX41058RC	3 pole	0.5	5SL43057RC	5SX43058RC
	1	–	5SX41018RC		1	–	5SX43018RC
	2	5SL41027RC	5SX41028RC		2	5SL43027RC	5SX43028RC
	4	5SL41047RC	5SX41048RC		4	5SL43047RC	5SX43048RC
	6	5SL41067RC	5SX41068RC		6	5SL43067RC	5SX43068RC
	10	5SL41107RC	5SX41108RC		10	5SL43107RC	5SX43108RC
	16	5SL41167RC	5SX41168RC		16	5SL43167RC	5SX43168RC
	20	5SL41207RC	5SX41208RC		20	5SL43207RC	5SX43208RC
	25	5SL41257RC	5SX41258RC		25	5SL43257RC	5SX43258RC
	32	5SL41327RC	5SX41328RC		32	5SL43327RC	5SX43328RC
	40	5SL41407RC	5SJ41408RC		40	5SL43407RC	5SJ43408RC
	50	5SL41507RC	5SJ41508RC		50	5SL43507RC	5SJ43508RC
	63	5SL41637RC	5SJ41638RC		63	5SL43637RC	5SJ43638RC
	80	5SP41807RC	5SP41808RC		80	5SP43807RC	5SP43808RC
	100	5SP41917RC	5SP41918RC		100	5SP43917RC	5SP43918RC
125	5SP41927RC	–	125	5SP43927RC	–		
2 pole	0.5	5SL42057RC	5SX42058RC	4 pole	0.5	5SL44057RC	5SX44058RC
	–	–	–		1	–	5SX44018RC
	2	5SL42027RC	5SX42028RC		2	5SL44027RC	5SX44028RC
	4	5SL42047RC	5SX42048RC		4	5SL44047RC	5SX44048RC
	6	5SL42067RC	5SX42068RC		6	5SL44067RC	5SX44068RC
	10	5SL42107RC	5SX42108RC		10	5SL44107RC	5SX44108RC
	16	5SL42167RC	5SX42168RC		16	5SL44167RC	5SX44168RC
	20	5SL42207RC	5SX42208RC		20	5SL44207RC	5SX44208RC
	25	5SL42257RC	5SX42258RC		25	5SL44257RC	5SX44258RC
	32	5SL42327RC	5SX42328RC		32	5SL44327RC	5SX44328RC
	40	5SL42407RC	5SJ42408RC		40	5SL44407RC	5SX44408RC
	50	5SL42507RC	5SJ42508RC		50	5SL44507RC	5SX44508RC
	63	5SL42637RC	5SJ42638RC		63	5SL44637RC	5SJ44638RC
	80	5SP42807RC	5SP42808RC		80	5SP44807RC	5SP44808RC
	100	5SP42917RC	5SP42918RC		100	5SP44917RC	5SP44918RC
125	5SP42927RC	–	125	5SP44927RC	–		

Circuit Breakers

Description	MLFB	Std. Pkg. (Nos.)
Rotary Handle Assembly for 5SJ, 5SP, 5SY, 5SL MCBs and 5TE8 Isolators	5ST38140RC	1



**Note :**

# For MRP, please contact your nearest Siemens partner or refer latest "MRP\* List - Electrical Installation A to Z"

<sup>5</sup> C = Instantaneous tripping between 5-10 times rated current (In)  
 D = Instantaneous tripping between 10-20 times rated current (In)



**SIEMENS**

# Geared up for any situation

LV HRC Fuses: DIN Type

Fuses are the fastest & simplest current limiting devices. With a wide current range, multiple voltage ratings and high short circuit strength, Siemens 3NA fuses are perfectly equipped for overcurrent protection in buildings & industries. The unique combi-indication enables the user to view the fuse status, easily, even from a distance. With Siemens fuses, protection is easy, safe and reliable.

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Siemens switchgear. Tried, tested, trusted.

## HRC fuses (DIN) 3NA

- High Breaking capacity of 120kA
- Dual indication for fault detection
- ISI marked
- Highly compact: upto 100A in size 000



### Upto 800A, 500V AC, S.C. breaking capacity 120kA

Size	Rated current (A)	Type	Unit MRP* ₹	Std. pkg. (nos.)	
000	2	3NA78020RC	305.-	5/10	
	4	3NA78040RC	305.-	5/10	
	6	3NA78010RC	305.-	5/10	
	10	3NA78030RC	305.-	5/10	
	16	3NA78050RC	310.-	5/10	
	20	3NA78070RC	310.-	5/10	
	25	3NA78100RC	310.-	5/10	
	32	3NA78120RC	310.-	5/10	
	40	3NA78170RC	335.-	5/10	
	50	3NA78200RC	335.-	5/10	
00	63	3NA78220RC	370.-	5/10	
	80	3NA78240RC	395.-	5/10	
	100	3NA78300RC	395.-	5/10	
	125	3NA78320RC	485.-	5/10	
	160	3NA78360RC	505.-	5/10	
	1	50	3NA71200RC	660.-	1/10
		63	3NA71220RC	660.-	1/10
		80	3NA71240RC	660.-	1/10
		100	3NA71300RC	660.-	1/10
		125	3NA71320RC	685.-	1/10
160		3NA71360RC	710.-	1/10	
200		3NA71400RC	710.-	1/10	
224		3NA71420RC	730.-	1/10	
2	250	3NA71440RC	795.-	1/10	
	200	3NA72400RC	980.-	1/10	
	250	3NA72440RC	1015.-	1/10	
	315	3NA72520RC	1050.-	1/10	
	400*	3NA72600RC	1050.-	1/10	
	3	315	3NA33520RC	1455.-	1/5
		400	3NA33600RC	1455.-	1/5
		500	3NA33650RC	1630.-	1/5
630		3NA33720RC	1660.-	1/5	
800*		3NA33754RC	2020.-	1/5	

\* 400A & 800A rated at 415V AC

### 690V AC, S.C. breaking capacity 120kA

Size	Rated current (A)	Type	Unit MRP* ₹	Std. pkg. (nos.)
00	40	3NA78176RC	405.-	5/10
	50	3NA78206RC	405.-	5/10
	63	3NA78226RC	435.-	5/10
	80	3NA78246RC	460.-	5/10
	100	3NA78306RC	460.-	5/10
1	125	3NA71326RC	800.-	1/10
	160	3NA71366RC	830.-	1/10
	200	3NA71406RC	830.-	1/10
2	250	3NA72446RC	1100.-	1/10
	315	3NA72526RC	1180.-	1/10
3	400	3NA33606RC	1715.-	1/5
	425	3NA33626RC	1715.-	1/5
	500	3NA33656RC	1825.-	1/5

### Isolating links (DIN)

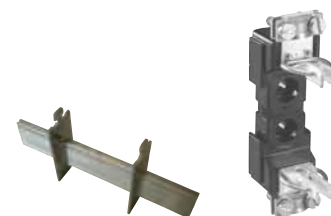
Size	Rated current (A)	Type	Unit MRP* ₹	Std. pkg. (nos.)
00	160	■ 3NG1 000	315.-	1
1	250	■ 3NG1 250	465.-	1
2	400	■ 3NG1 300	760.-	1
3	630	■ 3NG1 400	795.-	1

### Fuse bases (DIN)

Size	Rated current (A)	Suitable for fuse link type	Type	Unit MRP* ₹	Std. pkg. (nos.)
00	160	3NA7 8	■ 3NH3 030 (Screw-in connection at both ends)	380.-	1/10
00	160	3NA7 8	■ 3NH3 032 (Plug-in connection at both ends)	400.-	1/10
1	250	3NA7 1	■ 3NH3 230	745.-	1/5
2	400	3NA7 2	■ 3NH3 330	1080.-	1/5
3	630	3NA3 3	■ 3NH3 430	1525.-	1/5
3	800	3NA3 3	■ 3NH3 430 - 4RC	1835.-	1/5

### Fuse puller

Description	Type	MRP* ₹	Std. pkg. (nos.)
Suitable for 3KL8/3KT8 and all sizes of fuse links/isolating links	■ 3NX1 011	1555.-	1
Suitable only for fuse links and isolating links	3NX1 010	775.-	1



### 690V AC, S.C. breaking capacity 120kA

Size	Rated current (A)	Type	Unit MRP* ₹
000	2A	3NA7 802-6	Upon enquiry
	4A	3NA7 804-6	Upon enquiry
	6A	3NA7 801-6	Upon enquiry
	10A	3NA7 803-6	Upon enquiry
	16A	3NA7 805-6	Upon enquiry
	20A	3NA7 807-6	Upon enquiry
	25A	3NA7 810-6	Upon enquiry
	32A	3NA7 812-6	Upon enquiry
	35A	3NA7 814-6	Upon enquiry

Also available: Fuses for Solar Photo voltaic applications, domestic installations and control circuits protection. Please contact your nearest Siemens partner for more details.



## HRC fuses (BS) 3NW

- 2A-800A
- Rated at 415V AC/240V DC
- Breaking capacity 80kA (AC)



### Blade tag

Rated current A	Type	Unit MRP* ₹	Std. pkg. (nos.)
2	■ 3NW NS 2	70.-	20
4	■ 3NW NS 4	70.-	20
6	■ 3NW NS 6	70.-	20
10	■ 3NW NS 10	70.-	20
16	■ 3NW NS 16	70.-	20
20	■ 3NW NS 20	80.-	20
25	■ 3NW NS 25	80.-	20
32	3NW NS 32	80.-	20

### Offset tag

Rated current A	Type	Unit MRP* ₹	Std. pkg. (nos.)
2	3NW TIA 2	105.-	20
4	3NW TIA 4	105.-	20
6	3NW TIA 6	105.-	20
10	■ 3NW TIA 10	105.-	20
16	■ 3NW TIA 16	105.-	20
20	■ 3NW TIA 20	105.-	20
25	■ 3NW TIA 25	105.-	20
32	■ 3NW TIA 32	105.-	20
40	3NW TIS 40	160.-	20
50	■ 3NW TIS 50	160.-	20
63	■ 3NW TIS 63	160.-	20
80	3NW TCP 80	415.-	10
100	■ 3NW TCP 100	415.-	10
125	3NW TFP 125	630.-	5
160	3NW TFP 160	630.-	5
200	3NW TFP 200	630.-	5

### Central tag

Rated current A	Type	Unit MRP* ₹	Std. pkg. (nos.)
80	3NW TC 80	440.-	10
100	3NW TC 100	440.-	10
125	3NW TF 125	690.-	5
160	3NW TF 160	690.-	5
200	3NW TF 200	690.-	5
250	3NW TKF 250	990.-	1
315	3NW TKF 315	990.-	1
355	3NW TMF 355	1365.-	1
400	3NW TMF 400	1365.-	1
500	3NW TTM 500	2150.-	1
630	3NW TTM 630	2845.-	1
710	3NW TLM 710	3245.-	1
800	3NW TLM 800	3245.-	1

### Offset tag

Rated current A	Type	Unit MRP* ₹	Std. pkg. (nos.)
6	3NW TSA 6	80.-	20
10	3NW TSA 10	80.-	20
16	3NW TSA 16	80.-	20
20	3NW TSA 20	80.-	20
25	3NW TSA 25	80.-	20
32	3NW TSA 32	80.-	20
36	3NW TSS 36	175.-	20
40	3NW TSS 40	175.-	20
50	3NW TSS 50	175.-	20
63	3NW TSS 63	175.-	20
80	3NW TSDS 80	250.-	20
100	3NW TSDS 100	250.-	20
125	3NW TSFP 125	410.-	5
160	3NW TSFP 160	410.-	5
200	3NW TSFP 200	410.-	5

### Central tag

Rated current A	Type	Unit MRP* ₹	Std. pkg. (nos.)
80	3NW TSDC 80	305.-	10
100	3NW TSDC 100	305.-	10
125	3NW TSF 125	415.-	5
160	3NW TSF 160	415.-	5
200	3NW TSF 200	415.-	5
250	3NW TSK 250	745.-	1
315	3NW TSK 315	745.-	1
355	3NW TSMS 355	1250.-	1
400	3NW TSMS 400	1250.-	1
450	3NW TSTS 450	1270.-	1
500	3NW TSTS 500	1270.-	1
560	3NW TSLs 560	2060.-	1
630	3NW TSLs 630	2060.-	1
800	3NW TSLs 800	2980.-	1

### Fuse holders (for fuses type 3NW TIA, TSA, TIS, TSS, TSDS)

Rated current A	Type	Unit MRP* ₹	Std. pkg. (nos.)
32	3NW CM32F9	1215.-	10
63	3NW CM63F9	1420.-	10
100	3NW CM100F9	1570.-	10

### Fuse holders (for fuses Type 3NW NS) & Isolating link

Rated current A	Type	Unit MRP* ₹	Std. pkg. (nos.)
20	■ 3NW 20 NNSF	145.-	10
32	■ 3NW 32 NNSF	185.-	10
32A (Iso. Link)	■ 3NW 32 NNSL	85.-	10

■ Stock items

Please order in multiples of standard packing.

\* MRP - Maximum Retail Price

## Fuses for semiconductor protection - SITOR 3NE / 3NC

- Current Range upto 1600A
- Operating voltage: 500V - 2000V AC
- Suitable for mounting in fuse base / SDF / busbars



### 3NE4 type

Rated voltage V	Rated current (A)	Type	Utilization category	DIN size	Unit MRP* ₹	Std. pkg. (nos.)
1000	32	■ 3NE4 101	gR	1	1440.-	1
	40	■ 3NE4 102	gR	1	1445.-	1
	50	■ 3NE4 117	gR	1	1515.-	1
	80	■ 3NE4 120	aR	1	1640.-	1
	100	■ 3NE4 121	aR	1	1795.-	1
	125	■ 3NE4 122	aR	1	1930.-	1
	160	■ 3NE4 124	aR	1	2120.-	1
800	250	■ 3NE4 327-6	aR	-	4305.-	1
	315	■ 3NE4 330-6	aR	-	4435.-	1
	450	■ 3NE4 333-6	aR	-	4650.-	1
	500	■ 3NE4 334-6	aR	-	4680.-	1
	710	■ 3NE4 337-6	aR	-	5090.-	1

### 3NE9 type 600 V AC

Rated current (A)	Type	Utilization category	Size	Unit MRP* ₹	Std. pkg. (nos.)
850	3NE9440 - 6	gR	-	16930.-	3
1250	3NE9450	aR	-	15965.-	3



### 3NE8 type<sup>1)</sup> 690 V AC



Rated current (A)	Type	Utilization category	Size	Unit MRP* ₹	Std. pkg. (nos.)
25	3NE80151	gR	00	2825.-	3
35	3NE80031	gR	00	2825.-	3
50	3NE80171	gR	00	2825.-	3
63	3NE80181	gR	00	2825.-	3
80	3NE80201	aR	00	3140.-	3
100	3NE80211	aR	00	3280.-	3
125	3NE80221	aR	00	3330.-	3
160	3NE80241	aR	00	3655.-	3

### 3NE1 type<sup>1)</sup> 690 V AC



Rated current (A)	Type	Utilization category	DIN Size	Unit MRP* ₹	Std. pkg. (nos.)
16	3NE1813 - 0	gS	000	3330.-	3
20	3NE1814 - 0	gS	000	3330.-	3
25	3NE1815 - 0	gS	000	3330.-	3
35	3NE1803 - 0	gS	000	3330.-	3
40	3NE1802 - 0	gS	000	3330.-	3
50	3NE1817 - 0	gS	000	3330.-	3
63	3NE1818 - 0	gS	000	3330.-	3
80	3NE1820 - 0	gS	000	3330.-	3
100	3NE1021 - 0	gS	00	4540.-	3
125	3NE1022 - 0	gS	00	4540.-	3
160	3NE1224 - 0	gS	1	11005.-	3
200	3NE1225 - 0	gS	1	11005.-	3
250	3NE1227 - 0	gS	1	11555.-	3
315	3NE1230 - 0	gS	1	12390.-	3
350	3NE1331 - 0	gS	2	15395.-	3
400	3NE1332 - 0	gS	2	15520.-	3
450	3NE1333 - 0	gS	2	15620.-	3
500	3NE1334 - 0	gS	2	15860.-	3
560	3NE1435 - 0	gS	3	15940.-	3
630	3NE1436 - 0	gS	3	16635.-	3
710	3NE1437 - 0	gS	3	17300.-	3
800	3NE1438 - 0	gS	3	18165.-	3

### 3NE8 type 690 V AC / 700V DC



Rated current (A)	Type	Utilization category	Size	Unit MRP* ₹	Std. pkg. (nos.)
20	3NE87141	gR	000	2575.-	10
25	3NE87151	gR	000	2575.-	10
32	3NE87011	gR	000	2575.-	10
40	3NE87021	gR	000	2575.-	10
50	3NE87171	gR	000	2650.-	10
63	3NE87181	aR	000	2650.-	10
80	3NE87201	aR	000	2780.-	10
100	3NE87211	aR	000	2780.-	10
125	3NE87221	aR	000	2780.-	10
160	3NE87241	aR	000	2890.-	10
200	3NE87251	aR	000	2950.-	10
250	3NE87271	aR	000	3205.-	10
315	3NE87311	aR	000	4210.-	10

■ Stock items

Please order in multiples of standard packing.

<sup>1)</sup> Suitable for mounting on fuse base / 3KL8 / 3NP1

## Fuses for semiconductor protection - SITOR 3NE/3NC

3NE3 type  
1000 V AC

Rated current (A)	Type	Utilization category	DIN Size	Unit MRP* ₹	Std. pkg. (nos.)
100	3NE3221	aR	1	7910.-	3
125	3NE3222	aR	1	8135.-	3
160	3NE3224	aR	1	8135.-	3
200	3NE3225	aR	1	8260.-	3
250	3NE3227	aR	1	8480.-	3
315	3NE3230-0B	aR	1	8830.-	3
350	3NE3231	aR	1	10490.-	3
400	3NE3232-0B	aR	1	11240.-	3
450	3NE3233	aR	1	11635.-	3
400	3NE3332-0B	aR	2	11345.-	3
450	3NE3333	aR	2	11940.-	3
500	3NE3334-0B	aR	2	12165.-	3
560	3NE3335	aR	2	12625.-	3
630	3NE3336	aR	2	13230.-	3
710 <sup>^</sup>	3NE33378	aR	2	19620.-	3
800 <sup>^</sup>	3NE33388	aR	2	20160.-	3
900 <sup>^</sup>	3NE33408	aR	2	24010.-	3
100	3NE3421-0C	aR	3	16525.-	3
224	3NE3626-0C	aR	3	16175.-	3
315	3NE3430-0C	aR	3	17310.-	3
400	3NE3432-0C	aR	3	18330.-	3
450	3NE3635-0C	aR	3	19445.-	3
500	3NE3434-0C	aR	3	23265.-	3
630	3NE3636-0C	aR	3	26920.-	3
710	3NE3637-0C	aR	3	27910.-	3

<sup>^</sup> 710A: 900V AC; 800A: 800V AC; 900A: 690V AC

3NC type  
690V AC<sup>#</sup>

Rated current (A)	Type	Utilization category	DIN Size	Unit MRP* ₹	Std. pkg. (nos.)
150	3NC8423-3C	gR	3	16055.-	3
200	3NC8425-3C	gR	3	11195.-	3
250	3NC8427-3C	gR	3	12815.-	3
350	3NC8431-3C	gR	3	13210.-	3
500	3NC8434-3C	gR	3	14280.-	3
1000	3NC8444-3C	aR	3	25935.-	3

<sup>#</sup> 1000A, 600V AC

3NE5 type  
1500 V AC

Rated current (A)	Type	Utilization category	DIN Size	Unit MRP* ₹	Std. pkg. (nos.)
160	3NE5424 - 0C	aR	3	21905.-	2
224	3NE5426 - 0C	aR	3	26335.-	2
250	3NE5627 - 0C	aR	3	24425.-	3
315	3NE5430 - 0C	aR	3	27425.-	2
350	3NE5431 - 0C	aR	3	23520.-	2
450	3NE5633 - 0C	aR	3	26500.-	3
600	3NE5643 - 0C	aR	3	27790.-	3

3NE7 type  
2000 V AC

Rated current (A)	Type	Utilization category	DIN Size	Unit MRP* ₹	Std. pkg. (nos.)
200	3NE7425 - 0C	aR	3	23990.-	2
250	3NE7427 - 0C	aR	3	24665.-	2
350	3NE7431 - 0C	aR	3	26380.-	2
400	3NE7432 - 0C	aR	3	30900.-	2
450	3NE7633 - 1C	aR	3	31525.-	2
525	3NE7648 - 1C	aR	3	37040.-	2
630	3NE7636 - 1C	aR	3	37040.-	1
710	3NE7637 - 1C	aR	3	38460.-	2

## Semiconductor fuses also available in cylindrical fuse range!

- Rated current 3A - 100A
- Utilization category - aR
- Rated voltage upto 690V AC / 700V AC

Utilization category as per VDE 0636/IEC 60269

Semiconductor aR, gR, gS  
Cable & Conductor gG  
Motor aM

1st letter

a = Partial range of protection (accompanied fuses)  
g = Complete range protection (general purpose fuses)

2nd letter

G(-L) = Cable & conductor protection (general purpose fuses)  
M = Motor protection  
R, S = Semiconductor protection

Please order in multiples of standard packing.

\* MRP - Maximum Retail Price

# Fuseless selection Iq = 50 kA, IS/IEC:60947-4-1 (3VT with 3RT & 3RU)

Suitable for IE2 motors

- The selection is valid only for complete Siemens combinations i.e MCCB + Contactor + Birelay mentioned below.
- In case this combination is changed to accommodate another brand / rating of MCCB / contactor / birelay, it shall be the responsibility of the person making such a change to assure the coordination.**
- Selection is for normal starting conditions with starting time ≤ 6 seconds. (For heavy starting applications e.g. ID/FD fans, reciprocating compressor, ball mills etc., please consult Siemens.)
- MCCB protection setting should be maintained as per below chart.
- For charts with 3VT MCCB for ratings below 75kW, please consult Siemens.
- Recommended selection.

## Direct-on-line feeder

Sr No	kW 415V, 3ph, 50/60 Hz	Rated current IL (A)	Breaking Capacity Iq	Circuit Breaker				Bi-relay		Contactor	
				MCCB	Rated current In (A)	Overload Setting Ir (A)	S/C Setting .. X Ir	Type	Range (A)	Type	Amp
1	75	131	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	231	12.5 X Ir	3RU21 56-5DB10-8K	110 - 160	3RT1055	150
2	90	156	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	315	12.5 X Ir	3RU21 56-5EB10-8K	140 - 200	3RT1056	185
3	110	189	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	400	12.5 X Ir	3RU21 66-5FB10-8K	180 - 250	3RT1064	225
4	132	227	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	455	12.5 X Ir	3RU21 66-5GB10-8K	220 - 320	3RT1065	265
5	160	271	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	550	12.5 X Ir	3RU21 66-5GB10-8K	220 - 320	3RT1066	300
6	200	339	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	630	12.5 X Ir	3RU21 76-5HB10-8K	280 - 400	3RT1076	500
7	250	398	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	630	12.5 X Ir	3RU21 76-5JB10-8K	350 - 500	3RT1076	500

## Star-Delta feeder

Sr No	kW 415V, 3ph, 50/60 Hz	Rated current IL (A)	Phase Current Iph (A)	Breaking Capacity Iq	Circuit Breaker				Bi-relay		Contactor (Line/Delta)		Contactor (Star)	
					MCCB	Rated current In (A)	Overload Setting Ir (A)	S/C Setting .. X Ir	Type	Range (A)	Type	Amp	Type	Amp
1	75	131	75.6	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	200	12.5 X Ir	3RU11 46-4LB0	70 - 90	3RT1055	150	3RT1044	65
2	90	156	90.1	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	231	12.5 X Ir	3RU11 46-4MB0	80 - 100	3RT1056	185	3RT1044	65
3	110	189	109	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	290	12.5 X Ir	3RU21 56-5CB10-8K	90 - 125	3RT1064	225	3RT1054	115
4	132	227	131.1	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	345	12.5 X Ir	3RU21 56-5DB10-8K	110 - 160	3RT1065	265	3RT1054	115
5	160	271	156.5	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	400	12.5 X Ir	3RU21 56-5EB10-8K	140 - 200	3RT1066	300	3RT1054	115
6	200	339	195.7	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	500	12.5 X Ir	3RU21 56-5FB10-8K	180 - 250	3RT1076	500	3RT1056	185
7	250	398	229.8	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	575	12.5 X Ir	3RU21 56-5GB10-8K	220 - 320	3RT1076	500	3RT1065	265

Note: For ratings below 75kW, with SCPD 3RV MPCB, please refer to LV SGR - Motor Control Products MRP page no. 73 or consult nearest Siemens Office.  
For Type 2 Co-ordination chart with SCPD 3VL MCCB, please refer to LV SGR - Motor Control Products MRP page no. 73 or consult nearest Siemens Office.

Type-2 Co-ordination Charts

# Fuseless selection Iq = 50 kA, IS/IEC:60947-4-1 (3VT with 3TF & 3UA)

Suitable for IE2 motors

- The selection is valid only for complete Siemens combinations i.e MCCB + Contactor + Bi-relay mentioned below.
- In case this combination is changed to accommodate another brand / rating of MCCB / contactor / bi-relay, it shall be the responsibility of the person making such a change to assure the coordination.**
- Selection is for normal starting conditions with starting time  $\leq 6$  seconds. (For heavy starting applications e.g. ID/FD fans, reciprocating compressor, ball mills etc., please consult Siemens.)
- MCCB protection setting should be maintained as per below chart.
- For charts with 3VT MCCB for ratings below 75kW, please consult Siemens.
- Recommended selection.

## Direct-on-line feeder

Sr No	kW 415V, 3ph, 50/60 Hz	Rated current IL (A)	Breaking Capacity Iq	Circuit Breaker				Bi-relay		Contactor	
				MCCB	Rated current In (A)	Overload Setting Ir (A)	S/C Setting .. X Ir	Type	Range (A)	Type	Amp
1	75	131	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	231	12.5 X Ir	3UA62 30-5A	85 - 135	3TF52	170
2	90	156	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	315	12.5 X Ir	3UA62 30-5B	115-180	3TF53	205
3	110	189	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	400	12.5 X Ir	3UA62 30-5C	160 - 250	3TF53	205
4	132	227	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	455	12.5 X Ir	3UA62 30-5C	160 - 250	3TF54	250
5	160	271	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	550	12.5 X Ir	3UA62 30-5D	200 - 320	3TF55	300
6	200	339	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	630	12.5 X Ir	3UA62 30-5E	250 - 400	3TF57	475
7	250	398	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	630	12.5 X Ir	3UA68 30-5F	320 - 500	3TF57	475

## Star-Delta feeder

Sr No	kW 415V, 3ph, 50/60 Hz	Rated current I <sub>L</sub> (A)	Phase Current I <sub>ph</sub> (A)	Breaking Capacity Iq	Circuit Breaker				Bi-relay		Contactor (Line/Delta)		Contactor (Star)	
					MCCB	Rated current In (A)	Overload Setting Ir (A)	S/C Setting .. X Ir	Type	Range (A)	Type	Amp	Type	Amp
1	75	131	75.6	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	200	12.5 X Ir	3UA58 00-8YZ1	70 - 95	3TF52	170	3TF47	63
2	90	156	90.1	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	231	12.5 X Ir	3UA58 30-5B	70 - 95	3TF53	205	3TF47	63
3	110	189	109	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	290	12.5 X Ir	3UA58 30-5D	95 - 120	3TF53	205	3TF50	110
4	132	227	131.1	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	345	12.5 X Ir	3UA62 30-5B	115 - 180	3TF54	250	3TF50	110
5	160	271	156.5	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	400	12.5 X Ir	3UA62 30-5B	115 - 180	3TF55	300	3TF50	110
6	200	339	195.7	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	500	12.5 X Ir	3UA62 30-5C	160 - 250	3TF57	475	3TF52	170
7	250	398	229.8	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	575	12.5 X Ir	3UA62 30-5D	160 - 250	3TF57	475	3TF54	250

Note: For ratings below 75kW, with SCPD 3RV MPCB, please refer to LV SGR - Motor Control Products MRP page no. 75 or consult nearest Siemens Office.

For Type 2 Co-ordination chart with SCPD 3VL MCCB, please refer to LV SGR - Motor Control Products MRP page no. 75 or consult nearest Siemens Office.



## Fuse protected selection type 2, Iq = 50kA, IS/IEC:60947-4-1 (3KL with 3RT & 3RU)

Suitable for IE2 motors

- The selection is valid only for complete Siemens combinations i.e. SDF + DIN Fuse + Contactor + Bi-Relay (+ timer).
- In case this combination is changed to accommodate another brand/rating of SDF/DIN Fuse/Contactor/BMR, it shall be the responsibility of the person making such a change to assure type 2 performance.
- Selection is for **normal starting** conditions with starting time ≤ 6 seconds. (For **heavy starting** applications e.g. ID/FD fans, reciprocating compressor, ball mills etc., please consult Siemens.)
- The electronic star-delta timer type 3RP should be used in star-delta feeders.
- SDF: Switch Disconnecter Fuse. All fuses are DIN HRC type.
- Tested Type 2 combinations
- Low LCC = Low Life Cycle Cost

### Direct-on-line feeder, for Low LCC

SL Motor	Motor	SDF		HRC Fuse		Contactor		Bi-Relay	
kW 415V, 3ph, 50/60 Hz	I <sub>L</sub> Amp	Type	Amp	Type	Amp	Type	Amp	Type (60°C)	Set-Range Amp
0.37	1	3KL811	20	3NA78040RC	4	3RT20 15-1AP01	7	3RU21 16-0KB0	0.9 - 1.25
0.55	1.3	3KL811	20	3NA78040RC	4	3RT20 15-1AP01	7	3RU21 16-1AB0	1.1 - 1.6
0.75	1.9	3KL811	20	3NA78010RC	6	3RT20 15-1AP01	7	3RU21 16-1BB0	1.4 - 2
1.10	2.6	3KL811	20	3NA78010RC	6	3RT20 15-1AP01	7	3RU21 16-1DB0	2.2 - 3.2
1.50	3.7	3KL811	20	3NA78030RC	10	3RT20 15-1AP01	7	3RU21 16-1EB0	2.8 - 4
2.20	4.8	3KL811	20	3NA78050RC	16	3RT20 15-1AP01	7	3RU21 16-1GB0	4.5 - 6.3
3.7	7.8	3KL811	20	3NA78070RC	20	3RT20 23-1AL20	9	3RU21 26-1JB0	7 - 10
5.5	11.2	3KL812	32	3NA78100RC	25	3RT20 24-1AL20	12	3RU21 26-1KB0	9 - 12.5
7.5	16	3KL812	32	3NA78120RC	32	3RT20 25-1AL20	17	3RU21 26-4AB0	11 - 16
11	20.8	3KL815	63	3NA78200RC	50	3RT20 26-1AL20	25	3RU21 26-4DB0	20 - 25
15	28	3KL815	63	3NA78220RC	63	3RT20 27-1AL20	32	3RU21 26-4EB0	27 - 32
18.5	34	3KL815	63	3NA78220RC	63	3RT10 35-1AL20	40	3RU11 36-4FB0	28 - 40
22	40	3KL821	100	3NA78240RC	80	3RT10 36-1AL20	50	3RU11 36-4GB0	36 - 45
30	53	3KL821	100	3NA78300RC	100	3RT10 44-1AL20	65	3RU11 46-4JB0	45 - 63
37	65	3KL822	125	3NA78320RC	125	3RT10 45-1AL20	80	3RU11 46-4KB0	57 - 75
45	78	3KL822	125	3NA78320RC	125	3RT10 46-1AL20	95	3RU11 46-4LB0	70 - 90
55	96	3KL823	160	3NA78360RC	160	3RT10 54-6LA06	115	3RU11 46-4MB0	80 - 100
75	131	3KL831	200	3NA71400RC	200	3RT10 55-6LA06	150	3RU21 56-5DB10-8K	110 - 160
90	156	3KL832	250	3NA71440RC	250	3RT10 56-6LA06	185	3RU21 56-5EB10-8K	140 - 200
110	189	3KL832	250	3NA71440RC	250	3RT10 64-6LA06	225	3RU21 66-5FB10-8K	180 - 250
132	227	3KL833	315	3NA72520RC	315	3RT10 65-6LA06	265	3RU21 66-5FB10-8K	180 - 250
160	271	3KL834	400	3NA72600RC	400	3RT10 66-6LA06	300	3RU21 66-5GB10-8K	220 - 320
200	339	3KL841	500	3NA33650RC	500	3RT10 75-6LA06	400	3RU21 76-5HB10-8K	280 - 400
250	398	3KL841	500	3NA33650RC	500	3RT10 76-6LA06	500	3RU21 76-5JB10-8K	350 - 500

### Star-Delta feeder, for Low LCC

SL Motor	Motor		SDF		HRC Fuses		Contactor Line/Delta		Contactor Star		Bi-Relay		Timer
kW 415V, 3ph, 50/60Hz	I <sub>L</sub> Amp	I <sub>ph</sub> Amp	Type	Amp	Type	Amp	Type	Amp	Type	Amp	Type (60°C)	Set-Range Amp	Type
4	7.8	4.5	3KL811	20	3NA78030RC	10	3RT20 23-1AL20	9	3RT20 23-1AL20	9	3RU21 26-1FB0	3.5 - 5	3RP15
5.5	11.2	6.5	3KL811	20	3NA78050RC	16	3RT20 23-1AL20	9	3RT20 23-1AL20	9	3RU21 26-1HB0	5.5 - 8	3RP15
7.5	16	9.2	3KL811	20	3NA78070RC	20	3RT20 24-1AL20	12	3RT20 23-1AL20	9	3RU21 26-1JB0	7 - 10	3RP15
11	20.8	12	3KL812	32	3NA78100RC	25	3RT20 24-1AL20	12	3RT20 23-1AL20	9	3RU21 26-1KB0	9 - 12.5	3RP15
15	28	16.2	3KL812	32	3NA78120RC	32	3RT20 26-1AL20	25	3RT20 25-1AL20	17	3RU21 26-4BB0	14 - 20	3RP15
18.5	34	19.7	3KL815	63	3NA78200RC	50	3RT10 34-1AL20	32	3RT10 34-1AL20	32	3RU11 36-4BB0	14 - 20	3RP15
22	40	23.2	3KL815	63	3NA78200RC	50	3RT10 34-1AL20	32	3RT10 34-1AL20	32	3RU11 36-4DB0	18 - 25	3RP15
30	53	30.6	3KL815	63	3NA78220RC	63	3RT10 34-1AL20	32	3RT10 34-1AL20	32	3RU11 36-4EB0	22 - 32	3RP15
37	65	37.5	3KL821	100	3NA78240RC	80	3RT10 35-1AL20	40	3RT10 34-1AL20	32	3RU11 36-4FB0	28 - 40	3RP15
45	78	45	3KL821	100	3NA78300RC	100	3RT10 36-1AL20	50	3RT10 34-1AL20	32	3RU11 36-4HB0	40 - 50	3RP15
55	96	55.4	3KL821	100	3NA78300RC	100	3RT10 44-1AL20	65	3RT10 34-1AL20	32	3RU1146-4JB0	45 - 63	3RP15
75	131	75.6	3KL823	160	3NA78360RC	160	3RT10 45-1AL20	80	3RT10 44-1AL20	65	3RU11 46-4LB0	70 - 90	3RP15
90	156	90.1	3KL823	160	3NA78360RC	160	3RT10 46-1AL20	95	3RT10 44-1AL20	65	3RU11 46-4MB0	80 - 100	3RP15
110	189	109	3KL831	200	3NA71400RC	200	3RT10 54-6LA06	115	3RT10 54-6LA06	115	3RU21 56-5CB10-8K	90 - 125	3RP15
132	227	131.1	3KL832	250	3NA71440RC	250	3RT10 55-6LA06	150	3RT10 54-6LA06	115	3RU21 56-5DB10-8K	110 - 160	3RP15
160	271	156.5	3KL833	315	3NA72520RC	315	3RT10 56-6LA06	185	3RT10 54-6LA06	115	3RU21 56-5EB10-8K	140 - 200	3RP15
200	339	195.7	3KL834	400	3NA72600RC	400	3RT10 64-6LA06	225	3RT10 56-6LA06	185	3RU21 66-5FB10-8K	180 - 250	3RP15
250	398	229.8	3KL841	500	3NA33650RC	500	3RT10 65-6LA06	265	3RT10 65-6LA06	265	3RU21 66-5GB10-8K	220 - 320	3RP15

## Fuse protected selection type 2, Iq = 50kA, IS/IEC:60947-4-1 (3KL with 3TF & 3UA)

Suitable for IE2 motors

- The selection is valid only for complete Siemens combinations i.e. SDF + DIN Fuse + Contactor + Bi-Relay (+ timer).
- In case this combination is changed to accommodate another brand/rating of SDF/DIN Fuse/Contactor/BMR, it shall be the responsibility of the person making such a change to assure type 2 performance.**
- Selection is for **normal starting** conditions with starting time ≤ 6 seconds. (For **heavy starting** applications e.g. ID/FD fans, reciprocating compressor, ball mills etc., please consult Siemens.)
- At 60°C service temperature the bi-relay has to be derated. The bi-relay can be used upto the maximum current setting indicated. For example - A bi-relay with setting 32-50A, at 60°C can be used only upto 47A. This however does not mean that at 60°C, the 50A setting corresponds to 47A. It means that, the bi-relay should not be set beyond 47A.
- The electronic star-delta timer type 3RP should be used in star-delta feeders.**
- SDF: Switch Disconnecter Fuse. **All fuses are DIN HRC type.**
- Tested Type 2 combinations
- Low LCC = Low Life Cycle Cost

### Direct-on-line feeder, for Low LCC

SL Motor	Motor	SDF		HRC Fuse		Contactor		Bi-Relay		Bi-Relay	
kW 415V, 3ph, 50Hz	I <sub>L</sub> Amp	Type	Rating	Type	Amp	Type	Amp	Type (50°C)	Set-Range Amp	Type (60°C)	Available Set-Range Amp
0.37	1	3KL811	20	3NA78040RC	4	3TF30	9	3UA5000-0K	0.8 - 1.25	3UA5000-0K	0.8 - 1.17
0.55	1.3	3KL811	20	3NA78040RC	4	3TF30	9	3UA5000-1A	1 - 1.6	3UA5000-1A	1 - 1.5
0.75	1.9	3KL811	20	3NA78010RC	6	3TF30	9	3UA5000-1B	1.25 - 2	3UA5000-1C	1.6 - 2.3
1.1	2.6	3KL811	20	3NA78010RC	6	3TF30	9	3UA5000-1D	2 - 3.2	3UA5000-1D	2 - 3
1.5	3.7	3KL811	20	3NA78030RC	10	3TF30	9	3UA5000-1E	2.5 - 4	3UA5000-1E	2.5 - 3.7
2.2	4.8	3KL811	20	3NA78050RC	16	3TF30	9	3UA5000-1F	3.2 - 5	3UA5000-1G	4 - 5.9
3.7	7.8	3KL811	20	3NA78070RC	20	3TF30	9	3UA5000-1H	5 - 8	3UA5000-1J	6.3 - 9.4
5.5	11.2	3KL812	32	3NA78100RC	25	3TF31	12	3UA5000-1K	8 - 12.5	3UA5000-1K	8 - 11.7
7.5	16	3KL812	32	3NA78120RC	32	3TF32	16	3UA5200-2A	10 - 16	3UA5200-2B	12.5 - 18.7
9.3	19	3KL815	63	3NA78200RC	50	3TF34	32	3UA5500-2B	12.5 - 20	3UA5500-2C	16 - 23.4
11	20.8	3KL815	63	3NA78200RC	50	3TF34	32	3UA5500-2C	16 - 25	3UA5500-2C	16 - 23.4
15	28	3KL815	63	3NA78220RC	63	3TF34	32	3UA5500-2D	20 - 32	3UA5500-2D	20 - 30
18.5	34	3KL815	63	3NA78220RC	63	3TF35	38	3UA5500-2Q	25 - 36	3UA5500-2R	32 - 37.4
22	40	3KL821	100	3NA78240RC	80	3TF46	45	3UA5800-2FZ1	32 - 50	3UA5800-2FZ1	32 - 47
30	53	3KL821	100	3NA78300RC	100	3TF47	63	3UA5800-2TZ1	40 - 57	3UA5800-2PZ1	50 - 59
37	65	3KL822	125	3NA78320RC	125	3TF477	70	3UA5800-2VZ2	57 - 70	3UA5800-2VZ2	57 - 65.5
45	78	3KL822	125	3NA78320RC	125	3TF49	85	3UA5800-8YZ1	70 - 95	3UA5800-8YZ1	70 - 88.9
55	96	3KL823	160	3NA78360RC	160	3TF50	110	3UA5830-5C	85 - 105	3UA5830-5C	85 - 98.2
75	131	3KL831	200	3NA71400RC	200	3TF51	140	3UA6230-5A	85 - 135	3UA6230-5B	115 - 168
90	156	3KL832	250	3NA71440RC	250	3TF52	170	3UA6230-5B	115 - 180	3UA6230-5B	115 - 168
110	189	3KL832	250	3NA71440RC	250	3TF53	205	3UA6230-5C	160 - 250	3UA6230-5C	160 - 234
132	227	3KL833	315	3NA72520RC	315	3TF54	250	3UA6230-5C	160 - 250	3UA6230-5C	160 - 234
160	271	3KL834	400	3NA72600RC	400	3TF55	300	3UA6230-5D	200 - 320	3UA6230-5D	200 - 299
200	339	3KL841	500	3NA33650RC	500	3TF56	400	3UA6230-5E	250 - 400	3UA6230-5E	250 - 374
250	398	3KL841	500	3NA33650RC	500	3TF57	475	3UA6830-5F	320 - 500	3UA6830-5F	320 - 468

### Star-Delta feeder, for Low LCC

SL Motor	Motor		SDF		HRC Fuses		Contactor Line/Delta		Contactor Star		Bi-Relay		Bi-Relay		Timer
kW 415V, 3ph, 50Hz	I <sub>L</sub> Amp	I <sub>ph</sub> Amp	Type	Rating	Type	Amp	Type	Amp	Type	Amp	Type (50°C)	Set-Range Amp	Type (60°C)	Available Set-Range Amp	Type
3.7	7.8	4.5	3KL811	20	3NA78030RC	10	3TF30	9	3TF30	9	3UA5000-1F	3.2-5	3UA5000-1F	3.2-4.7	3RP15
5.5	11.2	6.5	3KL811	20	3NA78050RC	16	3TF30	9	3TF30	9	3UA5000-1H	5-8	3UA5000-1H	5-7.5	3RP15
7.5	16	9.2	3KL811	20	3NA78070RC	20	3TF31	12	3TF30	9	3UA5000-1J	6.3-10	3UA5000-1J	6.3-9.4	3RP15
9.3	19	11	3KL812	32	3NA78100RC	25	3TF31	12	3TF30	9	3UA5000-1K	8-12.5	3UA5000-1K	8-11.7	3RP15
11	20.8	12	3KL812	32	3NA78100RC	25	3TF31	12	3TF30	9	3UA5000-1K	8-12.5	3UA5000-2S	10-13.6	3RP15
15	28	16.2	3KL812	32	3NA78120RC	32	3TF33	22	3TF32	16	3UA5200-2B	12.5-20	3UA5200-2B	12.5-18.7	3RP15
18.5	34	19.7	3KL815	63	3NA78200RC	50	3TF34	32	3TF34	32	3UA5500-2B	12.5-20	3UA5500-2C	16-23.4	3RP15
22	40	23.2	3KL815	63	3NA78200RC	50	3TF34	32	3TF34	32	3UA5500-2C	16-25	3UA5500-2D	22-30	3RP15
30	53	30.6	3KL815	63	3NA78220RC	63	3TF34	32	3TF34	32	3UA5500-2D	20-32	3UA5500-2Q	25-33.7	3RP15
37	65	37.5	3KL821	100	3NA78240RC	80	3TF35	38	3TF34	32	3UA5500-2R	32-40	3UA5500-8M	36-45	3RP15
45	78	45	3KL821	100	3NA78300RC	100	3TF46	45	3TF34	32	3UA5800-2FZ1	32-50	3UA5800-2FZ1	32-47	3RP15
55	96	55.4	3KL821	100	3NA78300RC	100	3TF47	63	3TF34	32	3UA5800-2TZ1	40-57	3UA5800-2PZ1	50-59	3RP15
75	131	75.6	3KL823	160	3NA78360RC	160	3TF49	85	3TF47	63	3UA5800-8YZ1	70-95	3UA5800-8YZ1	70-88.9	3RP15
90	156	90.1	3KL823	160	3NA78360RC	160	3TF50	110	3TF47	63	3UA5830-5B	70-95	3UA5830-5C	85-98.2	3RP15
110	189	109	3KL831	200	3NA71400RC	200	3TF50	110	3TF50	110	3UA5830-5D	95-120	3UA5830-5D	95-112	3RP15
132	227	131.1	3KL832	250	3NA71440RC	250	3TF51	140	3TF50	110	3UA6230-5B	115-180	3UA6230-5B	115-168	3RP15
160	271	156.5	3KL833	315	3NA72520RC	315	3TF52	170	3TF50	110	3UA6230-5B	115-180	3UA6230-5B	115-168	3RP15
200	339	195.7	3KL834	400	3NA72600RC	400	3TF54	250	3TF52	170	3UA6230-5C	160-250	3UA6230-5C	160-234	3RP15
250	398	229.8	3KL841	500	3NA72600RC	400	3TF54	250	3TF54	250	3UA6230-5C	160-250	3UA6230-5D	200-299	3RP15



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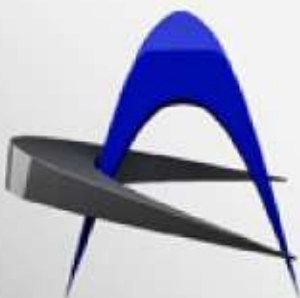
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