



SIEMENS

DEALER



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A detailed night-time rendering of a large industrial complex, possibly a refinery or chemical plant. The facility is illuminated with various lights, showing intricate piping, storage tanks, and processing units. In the background, there are rolling hills and a city skyline with lit-up buildings. The foreground shows a parking lot with many cars and some greenery.

**Your trusted partner for reliable  
industrial controls**

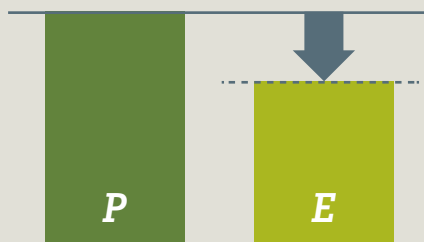
**LV Switchgear – Motor Control Products**

Price List w.e.f. 1<sup>st</sup> October, 2015

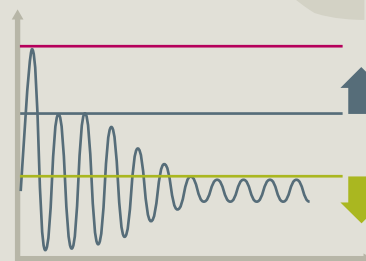
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## We are IE3 ready SIRIUS industrial controls

*IE3-compliant motors*



consume  
**less energy**

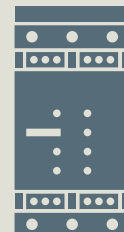


Starting current

Nominal current

but show  
**higher currents**  
when starting

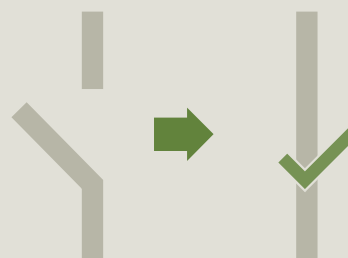
*That's why we've optimized our SIRIUS industrial controls for IE3 motors*



*For example*



**no nuisance tripping**  
during start-up



**reliable switching**  
with IE3 motors



*The result*

**Reliable  
switching and  
protection  
of IE3 motors**  
at any time



IE1



IE2



**Are you IE3 ready?**  
[siemens.com/ie3ready](https://www.siemens.com/ie3ready)

# Index

Contents	Page No.
<b>1 Switching Devices</b>	
Contactor Relays - 3RH2 (S00)	5
Latched Contactor Relays (S00)	5
Contactor Relays (with Low power consumption coil - S00)	5
Power Contactors - 3RT (S00, S0, S2, S3)	6
Power Contactors - 3RT (Size S6,S10,S12)	7
3RT power contactor with in-built coil (S6-S12)	7
Power Contactors - 3RT20 coupling relays (PLC interface relay)	8
Power contactor - 3RT (S0) - Universal coil	8
Communication capable power contactors (S00, S0)	9
Power Contactors - 3RT with indication of Remaining LifeTime (RLT)	9
3 Pole AC1 Duty Contactors - 3RT14	10
4 pole contactors (with 4NO main contacts)	10
Vacuum contactors - 3RT12	10
4 Pole Power Contactors (with 2NO+2NC power contacts)	10
Auxiliary contact blocks for 3RT/3RH	11
Reversing contactor Assemblies - 3RA	12
Star Delta Contactor Assemblies - 3RA	13
3RA Load Feeders	14
Accessories for 3RT2 & 3RH2 Contactors - Size S00...S0	17
Accessories for 3RT Contactors (S00-S12)	20
Accessories for 3RT12/13/15/16	35
Spares coils (S0-S12)	35
Spare parts for 3RT/3RH contactor & contactor relays	36
Adapter plates	36
Spares for 3RT12 vacuum contactors	37
Contactor relays and power contactors - 3TH, 3TF	38
AC1 duty contactors - 3TK	40
Hoisting duty contactors - 3TF	40
Capacitor duty contactor - 3TS	40
2 Pole AC & DC power contactors - 3TF/3TC	40
Solid state switching devices - 3RF	41
Accessories and spares for 3TF/3TH/3TK/3TC/3TA	41
<b>2 Protection Devices</b>	
Thermal Overload Relays - 3RU	45
Microprocessor based overload relay - 3RB	46
Accessories for 3RU/3RB overload relays	48
Thermal overload relays - 3UA / 3UC	49
Accessories for 3UA birelay	49
Motor Protection Circuit Breakers - 3RV	50
Accessories for 3RV	51
Motor protection circuit breakers - 3VU	54
Accessories for 3VU13 / 3VU16	54
<b>3 Motor Starting Devices</b>	
Digital soft starters and accessories - 3RW30/40/44	55
DOL starters / Star-Delta starters - 3TW / 3LW / 3TS / 3TE	57
Spares for starters	58

Contents	Page No.
<b>4 Timing and Monitoring Devices</b>	
Electronic timers - 3RP	59
Current monitoring relay - 3RR	59
Monitoring relays - 3UG	59
Monitoring relays - 3RN1	60
Timing and Monitoring relays - 7PV0 / 7UG0	61
Plug-in-relay - 7RQ	63
<b>5 Commanding and Signalling Devices</b>	
Signalling column - 8WN	64
Compact LED indicating lamps - 3SB5	66
Indicating lamps (complete and modular) - 3SB5	66
Push button - 3SB5	67
Push button stations - 3SB5	68
Spares and accessories - 3SB5	69
<b>6 Detecting Devices</b>	
Open type limit switches - 3SE3	70
Oil tight limit switches (2 / 3 / 4 contacts) - 3SE3	70
Accessories for limit switches	71
<b>7 Actuator sensor interface (AS-i)</b>	<b>71</b>
<b>8 SIMOCODE pro</b>	<b>73</b>
<b>9 Safety Relays &amp; Systems - 3SK1</b>	<b>74</b>
<b>10 Type-2 Co-ordination Charts</b>	<b>75</b>
<b>11 Available till stocks last</b>	
Contactor relay - 3RH1 (S00)	83
Power contactors - 3RT1 (S00)	83
Accessories for 3RT1 / 3RH1 (S00)	83
Latched contactor relays - 3RH14 (S00)	83
Contactor relays - 3RH1 (S00) (With low power consumption coil)	84
Power contactors - 3RT1 (S00) (With low power consumption coil)	84
Power contactors - 3RT1 (S0, S2)	84
Power contactors - 3RT15 (S00, S0)	85
4 pole contactors - 3RT13 (S00, S0)	85
Reversing contactor assemblies - 3RA13	85
Star-delta contactor assemblies - 3RA14	85
3RA1 load feeders	86
3RT16 capacitor duty contactors	86
Accessories for 3RT1 / 3RH1 contactors (S00)	87
Microprocessor based overload relay - 3RB20/21	88
Thermal overload relays - 3RU11 (S00, S0)	88
Motor protection circuit breakers - 3RV1 (S00, S0)	89
<b>12 Equivalent chart: 3TF to SIRIUS 3RT, 3UR to 3RU21, 3TK28 to 3SK1</b>	<b>90</b>
<b>13 Contact Partners</b>	
Customer care	92
Training centres	94
Offices and territory managers	Back cover



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The permanent advancement and continuous innovation of SIRIUS optimally prepare our customers for current and future requirements and provide them with efficient solutions. All components of the SIRIUS modular system are characterized by their space-saving design and high degree of flexibility. Configuration, installation, wiring and maintenance can be realized easily and in minimum time. SIRIUS system has global acceptability with UL/CSA and CE marking. SIRIUS components are suitable for 60°C without de-rating. Thanks to the latest innovations of sizes S00 and S0 up to 40 A, the SIRIUS modular system now offers even more functional diversity:

- Very high termination reliability, shock and vibration proof terminals thanks to Spring loaded terminals
- Application monitoring integrated in the feeder due to direct mounting of current monitoring relays on the contactor
- Innovative function modules for the easy assembly of star delta starters that replace the control wiring.
- Ease of data communication to PLC with communication capable contactors with open communication protocols like AS-i and IO link

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



### Screw terminals

Size	Operational Current Ie AC-15 at 230V A	Contacts	Contacts	AC Coil <sup>\$</sup>			DC Coil <sup>@</sup>		
		NO	NC	Type*	Unit LP ₹	Std. pkg. (nos.)	Type*	Unit LP ₹	Std. pkg. (nos.)
S00	10	4	–	■ 3RH21 40-1A..0	1150.-	1	■ 3RH21 40-1B..0	1555.-	1
		3	1	■ 3RH21 31-1A..0	1150.-	1	■ 3RH21 31-1B..0	1555.-	1
		2	2	■ 3RH21 22-1A..0	1150.-	1	■ 3RH21 22-1B..0	1555.-	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 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	Contacts	AC Coil <sup>\$</sup>			DC Coil <sup>@</sup>		
	NO	NC	Type	Unit LP ₹	Std. pkg. (nos.)	Type	Unit LP ₹	Std. pkg. (nos.)
10	4	–	■ 3RH24 40-1A..0	3940.-	1	■ 3RH24 40-1B..0	5145.-	1
	3	1	■ 3RH24 31-1A..0	3940.-	1	■ 3RH24 31-1B..0	5145.-	1
	2	2	■ 3RH24 22-1A..0	3940.-	1	■ 3RH24 22-1B..0	5145.-	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.

## Contactors 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 Supressors	Rated operational current le AC-15 at 230 V  A	Auxillary contacts		Type*	Unit LP ₹	Std. pkg. (nos.)
			NO	NC			
S00	Built in supressor Diode	10	4	–	■ 3RH21 40-1KB40	1930.-	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

LP - List Price

## Power Contactors

### 3RT (S00)

#### Screw terminals



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 LP ₹	Std. pkg. (nos.)	Type*	Unit LP ₹	Std. pkg. (nos.)
S00	7	3	1NO	■ 3RT20 15-1A..1	955.-	1	■ 3RT20 15-1B..1	1405.-	1
			1NC	■ 3RT20 15-1A..2	955.-	1	■ 3RT20 15-1B..2	1405.-	1
	9	4	1NO	■ 3RT20 16-1A..1	1010.-	1	■ 3RT20 16-1B..1	1495.-	1
			1NC	■ 3RT20 16-1A..2	1010.-	1	■ 3RT20 16-1B..2	1495.-	1
	12	5.5	1NO	■ 3RT20 17-1A..1	1115.-	1	■ 3RT20 17-1B..1	1740.-	1
			1NC	■ 3RT20 17-1A..2	1115.-	1	■ 3RT20 17-1B..2	1740.-	1
	16	7.5	1NO	■ 3RT20 18-1A..1	1305.-	1	■ 3RT20 18-1B..1	2045.-	1
			1NC	■ 3RT20 18-1A..2	1305.-	1	■ 3RT20 18-1B..2	2045.-	1

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

#### <sup>\$</sup> AC coil voltage for size S00

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

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

#### @ DC coil voltage for size S00

Code	■ B4	F4	M4
Coil voltage	24	110	220

### 3RT (S0, S2, S3)

#### Screw terminals

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 LP ₹	Std. pkg. (nos.)	Type*	Unit LP ₹	Std. pkg. (nos.)
S0	9	4	1NO + 1NC	■ 3RT20 23-1A..0	1205.-	1	■ 3RT20 23-1B..0	1955.-	1
	12	5.5	1NO + 1NC	■ 3RT20 24-1A..0	1335.-	1	■ 3RT20 24-1B..0	2115.-	1
	17	7.5	1NO + 1NC	■ 3RT20 25-1A..0	1495.-	1	■ 3RT20 25-1B..0	2750.-	1
	25	11	1NO + 1NC	■ 3RT20 26-1A..0	1890.-	1	■ 3RT20 26-1B..0	3445.-	1
	32	15	1NO + 1NC	■ 3RT20 27-1A..0	3880.-	1	■ 3RT20 27-1B..0	7335.-	1
	38	18.5	1NO + 1NC	■ 3RT20 28-1A..0	5675.-	1	■ 3RT20 28-1B..0	8510.-	1
	40	18.5	1NO + 1NC	■ 3RT20 28-1A..0-0JA0 <sup>#</sup>	5975.-	1	■ 3RT20 28-1B..0-0JA0 <sup>#</sup>	8920.-	1
S2	50	22	–	■ 3RT10 36-1A..0	6900.-	1	■ 3RT10 36-1B..0	11165.-	1
S3	65	30	–	■ 3RT10 44-1A..0 8K	9715.-	1	■ 3RT10 44-1B..0	12700.-	1
	80	37	–	■ 3RT10 45-1A..0 8K	12410.-	1	■ 3RT10 45-1B..0	15515.-	1
	95	45	–	■ 3RT10 46-1A..0 8K	15075.-	1	■ 3RT10 46-1B..0	19200.-	1

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

#### <sup>\$</sup> AC coil voltage for size S0, S2, S3

Code	C2	■ G2	■ L2
Coil voltage 50/60 Hz	24	110	230

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

<sup>#</sup> 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

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

Code	■ B4	F4	M4
Coil voltage	24	110	220

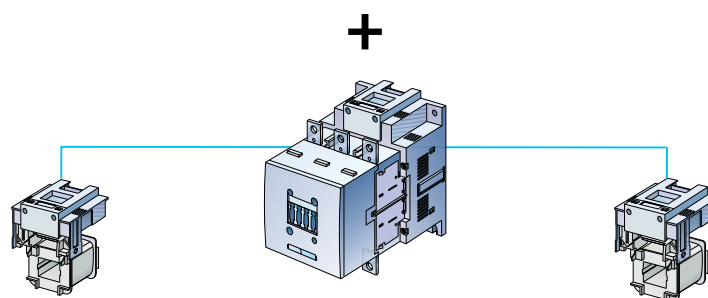
## Power Contactors

### 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 LP ₹	Std. pkg. (nos.)
S6	115	55	2NO+2NC	■ 3RT10 54-6LA06 8K	15195.-	1
	150	75	2NO+2NC	■ 3RT10 55-6LA06 8K	21095.-	1
	185	90	2NO+2NC	■ 3RT10 56-6LA06 8K	28575.-	1
S10	225	110	2NO+2NC	■ 3RT10 64-6LA06 8K	30175.-	1
	265	132	2NO+2NC	■ 3RT10 65-6LA06 8K	36330.-	1
	300	160	2NO+2NC	■ 3RT10 66-6LA06 8K	44155.-	1
S12	400	200	2NO+2NC	■ 3RT10 75-6LA06 8K	52480.-	1
	500	250	2NO+2NC	■ 3RT10 76-6LA06 8K	75715.-	1



#### Coil - Conventional operating mechanism

Size	Rated control supply voltage U <sub>s</sub> 40 to 60 Hz AC, DC V AC/DC	Type	Unit LP ₹	Std. pkg. (nos.)
S6	23...26	■ 3RT19 55-5AB31 8K	3440.-	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	5095.-	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	9345.-	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	Unit LP ₹	Std. pkg. (nos.)
S6	21...27.3	3RT19 55-5NB31	6610.-	1
	96...127	3RT19 55-5NF31		1
	200...277	■ 3RT19 55-5NP31		1
S10	21...27.3	3RT19 65-5NB31	9915.-	1
	96...127	3RT19 65-5NF31		1
	200...277	■ 3RT19 65-5NP31		1
S12	21...27.3	3RT19 75-5NB31	13225.-	1
	96...127	3RT19 75-5NF31		1
	200...277	■ 3RT19 75-5NP31		1

or

## 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 LP ₹	Std. pkg. (nos.)
S6	115	3RT10 54-6A\$36 8K	19455.-	1
	150	3RT10 55-6A\$36 8K	25465.-	1
	185	3RT10 56-6A\$36 8K	33005.-	1
S10	225	3RT10 64-6A\$36 8K	36155.-	1
	265	3RT10 65-6A\$36 8K	42310.-	1
	300	3RT10 66-6A\$36 8K	50130.-	1
S12	400	3RT10 75-6A\$36 8K	63130.-	1
	500	3RT10 76-6A\$36 8K	86560.-	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 LP ₹	Std. pkg. (nos.)
S6	115	3RT10 54-6N#36	23990.-	1
	150	3RT10 55-6N#36	30390.-	1
	185	3RT10 56-6N#36	38360.-	1
S10	225	3RT10 64-6N#36	43290.-	1
	265	3RT10 65-6N#36	49845.-	1
	300	3RT10 66-6N#36	58180.-	1
S12	400	3RT10 75-6N#36	70255.-	1
	500	3RT10 76-6N#36	99400.-	1

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

## 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	Auxiliary contacts		Type*	Unit LP ₹	Std. pkg. (nos.)
				NO	NC			
S00	Built in suppressor Diode	7	3	1	—	3RT20 15-1KB41	1585.-	1
				—	1	3RT20 15-1KB42	1585.-	1
		9	4	1	—	3RT20 16-1KB41	1765.-	1
				—	1	3RT20 16-1KB42	1765.-	1
		12	5.5	1	—	3RT20 17-1KB41	1835.-	1
				—	1	3RT20 17-1KB42	1835.-	1
	Built in Diode	7	3	1	—	3RT20 15-1JB41	1585.-	1
				—	1	3RT20 15-1JB42	1585.-	1
		9	4	1	—	3RT20 16-1JB41	1765.-	1
				—	1	3RT20 16-1JB42	1765.-	1
		12	5.5	1	—	3RT20 17-1JB41	1835.-	1
				—	1	3RT20 17-1JB42	1835.-	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	Auxiliary contacts		Type*	Unit LP ₹	Std. pkg. (nos.)
				NO	NC			
S0	Varistor integrated	12	5.5	1	1	■ 3RT20 24-1KB40	2220.-	1
		17	7.5	1	1	■ 3RT20 25-1KB40	3570.-	1
		25	11	1	1	■ 3RT20 26-1KB40	4310.-	1
		32	15	1	1	■ 3RT20 27-1KB40	7615.-	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	Auxiliary contacts	Universal coil#		
				Type*	Unit LP ₹	Std. pkg. (nos.)
S0	12	5.5	1NO + 1NC	3RT20 24-1N..0	2665.-	1
	17	7.5	1NO + 1NC	3RT20 25-1N..0	3155.-	1
	25	11	1NO + 1NC	3RT20 26-1N..0	4355.-	1
	32	15	1NO + 1NC	3RT20 27-1N..0	9200.-	1
	38	18.5	1NO + 1NC	3RT20 28-1N..0	10555.-	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	Auxiliary contacts	Type*	Unit LP ₹	Std. pkg. (nos.)
S00	7	3	1NO	3RT20 15-1BB41-0CC0	1680.-	1
			1NC	3RT20 15-1BB42-0CC0		
	9	4	1NO	3RT20 16-1BB41-0CC0	1790.-	1
			1NC	3RT20 16-1BB42-0CC0		
	12	5.5	1NO	3RT20 17-1BB41-0CC0	2070.-	1
			1NC	3RT20 17-1BB42-0CC0		
	16	7.5	1NO	3RT20 18-1BB41-0CC0	2350.-	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	Auxiliary contacts	Type*	Unit LP ₹	Std. pkg. (nos.)
S0	9	4	1NO + 1NC	3RT20 23-1BB40-0CC0	2290.-	1
	12	5.5	1NO + 1NC	3RT20 24-1BB40-0CC0	2455.-	1
	17	7.5	1NO + 1NC	3RT20 25-1BB40-0CC0	2895.-	1
	25	11	1NO + 1NC	3RT20 26-1BB40-0CC0	3990.-	1
	32	15	1NO + 1NC	3RT20 27-1BB40-0CC0	7615.-	1
	38	18.5	1NO + 1NC	3RT20 28-1BB40-0CC0	9670.-	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)

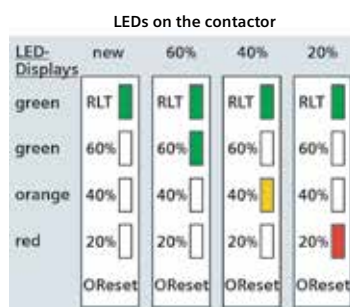
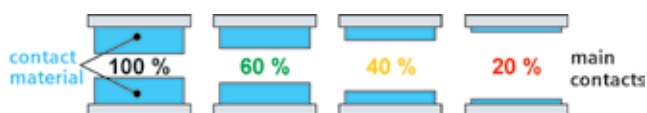
### Withdrawable coils and integrated surge suppressor

#### 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	Auxiliary contacts	Rated control supply voltage $U_s$ 40 to 60 Hz AC, DC V AC/DC	Type	Unit LP ₹	Std. pkg. (nos.)
S6	115	55	1NO+1NC	96...127	3RT10 54-1PF35	29125.-	1
			1NO+1NC	220...277	3RT10 54-1PP35	29125.-	
	150	75	1NO+1NC	96...127	3RT10 55-6PF35	35265.-	1
			1NO+1NC	220...277	3RT10 55-6PP35	35265.-	
	185	90	1NO+1NC	96...127	3RT10 56-6PF35	43170.-	1
			1NO+1NC	220...277	3RT10 56-6PP35	43170.-	
S10	225	110	1NO+1NC	96...127	3RT10 64-6PF35	46955.-	1
			1NO+1NC	220...277	3RT10 64-6PP35	46955.-	
	265	132	1NO+1NC	96...127	3RT10 65-6PF35	53485.-	1
			1NO+1NC	220...277	3RT10 65-6PP35	53485.-	
	300	160	1NO+1NC	96...127	3RT10 66-6PF35	61810.-	1
			1NO+1NC	220...277	3RT10 66-6PP35	61810.-	
S12	400	200	1NO+1NC	96...127	3RT10 75-6PF35	73365.-	1
			1NO+1NC	220...277	3RT10 75-6PP35	73365.-	
	500	250	1NO+1NC	96...127	3RT10 76-6PF35	107660.-	1
			1NO+1NC	220...277	3RT10 76-6PP35	107660.-	

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>§</sup>			DC Coil <sup>@</sup>		
		Type	Unit LP ₹	Std. pkg. (nos.)	Type	Unit LP ₹	Std. pkg. (nos.)
S3	140	3RT14 46-1A..0 8K	13715.-	1	3RT14 46-1B..0	17065.-	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 LP ₹	Std. pkg. (nos.)
S6	275	2NO+2NC	3RT14 56-6A..6 8K	30630.-	1
S10	400	2NO+2NC	3RT14 66-6A..6 8K	41790.-	1
S12	690	2NO+2NC	3RT14 76-6A..6 8K	86690.-	1

# Please enter coil codes from the table

## 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 LP ₹	Std. pkg. (nos.)
		NO	NC			
00	18	—	—	3RT23 16-1A..0	1450.-	1
	22	—	—	3RT23 17-1A..0	1580.-	1
0	30	1	1	3RT23 24-1A..0	1655.-	1
	35	1	1	3RT23 25-1A..0	1760.-	1
	40	1	1	3RT23 26-1A..0	2735.-	1
	50	1	1	3RT23 27-1A..0	3310.-	1
2	60	—	—	3RT13 36-1A..0	6325.-	1
3	90	—	—	3RT13 43-1A..0	10485.-	1
	110	—	—	3RT13 44-1A..0	11990.-	1
	140	—	—	3RT13 46-1A..0	15615.-	1

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

For accessories, please refer pg. 35

## 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 LP ₹	Std. pkg. (nos.)	Type	Unit LP ₹	Std. pkg. (nos.)
S00	18	3RT25 16-1A..0	1715.-	1	3RT25 16-1B..0	2235.-	1
	22	3RT25 17-1A..0	2015.-	1	3RT25 17-1B..0	3300.-	1
S0	40	3RT25 26-1A..0	3395.-	1	3RT25 26-1B..0	6145.-	1
S2	55	3RT15 35-1A..0	8995.-	1	3RT15 35-1B..0	11520.-	1



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

Code	B0	F0	P0
Coil voltage (V) (50Hz)	24	110	230

\* Wideband coil voltages available on enquiry.

### @ 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

## 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 LP ₹	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

### 4) 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



### 5) 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 LP ₹	Std. pkg. (nos.)
S00 / S0	1	—	3RH29 11-1HA10	240.-	1
	—	1	3RH29 11-1HA01		1
	2	—	3RH29 11-1HA20	320.-	1
	1	1	3RH29 11-1HA11		1
	—	2	3RH29 11-1HA02		1
	2	2	3RH29 11-1HA22	575.-	1
	3	1	3RH29 11-1HA31		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 LP ₹	Std. pkg. (nos.)
S00 / S0	—	2	3RH29 21-1DA02	685.-	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'

<sup>1)</sup> 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 LP ₹	Std. pkg. (nos.)
------	--	--	--	---------------	------	--------------	---------------------

#### 1 Pole Front mounted Auxiliary Contact blocks

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

S2-S12	1	—	—	—	■ 3RH19 21-1CA10	165.-	10
	—	1	—	—	■ 3RH19 21-1CA01		10
	—	—	1	—	3RH19 21-1CD10	335.-	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	720.-	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	720.-	1
	1	1	—	—	3RH19 21-1KA11		1
	—	2	—	—	3RH19 21-1KA02		1



# Delayed actuation

■ Stock items

LP - List Price

## Reversing contactor Assemblies - 3RA.3



S00



S0

### 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 V AC	Type*	Unit LP ₹	Std. pkg. (nos.)	Rated control supply voltage U <sub>s</sub> V DC	Type*	Unit LP ₹	Std. pkg. (nos.)
S00	7	3	110	3RA23 15-8XB30-1AF0	3330.-	1	24	3RA23 15-8XB30-1BB4	4415.-	1
			230	3RA23 15-8XB30-1AP0		1				
	9	4	110	3RA23 16-8XB30-1AF0	3515.-	1	24	3RA23 16-8XB30-1BB4	4775.-	1
			230	3RA23 16-8XB30-1AP0		1				
	12	5.5	110	3RA23 17-8XB30-1AF0	3675.-	1	24	3RA23 17-8XB30-1BB4	5335.-	1
			230	3RA23 17-8XB30-1AP0		1				
	16	7.5	110	3RA23 18-8XB30-1AF0	4345.-	1	24	3RA23 18-8XB30-1BB4	6265.-	1
			230	3RA23 18-8XB30-1AP0		1				
S0	12	5.5	110	3RA23 24-8XB30-1AG2	4340.-	1	24	3RA23 24-8XB30-1BB4	5835.-	1
			230	3RA23 24-8XB30-1AL2		1				
	17	7.5	110	3RA23 25-8XB30-1AG2	4845.-	1	24	3RA23 25-8XB30-1BB4	6690.-	1
			230	3RA23 25-8XB30-1AL2		1				
	25	11	110	3RA23 26-8XB30-1AG2	5845.-	1	24	3RA23 26-8XB30-1BB4	8870.-	1
			230	3RA23 26-8XB30-1AL2		1				
	32	15	110	3RA23 27-8XB30-1AG2	10725.-	1	24	3RA23 27-8XB30-1BB4	17370.-	1
			230	3RA23 27-8XB30-1AL2		1				
	38	18.5	110	3RA23 28-8XB30-1AG2	15050.-	1	24	3RA23 28-8XB30-1BB4	19645.-	1
			230	3RA23 28-8XB30-1AL2		1				

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



S2



S3

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 V AC	Type	Unit LP ₹	Std. pkg. (nos.)	Rated control supply voltage U <sub>s</sub> V DC	Type	Unit LP ₹	Std. pkg. (nos.)
S2	50	22	110	3RA13 36-8XB30-1AG2	20365.-	1	24	3RA13 36-8XB30-1BB4	28700.-	1
	50	22	2300	3RA13 36-8XB30-1AL2						
S3	65	30	110	3RA13 44-8XB30-1AG2	27760.-	1	24	3RA13 44-8XB30-1BB4	32960.-	1
			230	3RA13 44-8XB30-1AL2						
	80	37	110	3RA13 45-8XB30-1AG2	33340.-	1	24	3RA13 45-8XB30-1BB4	41480.-	1
			230	3RA13 45-8XB30-1AL2						
	95	45	110	3RA13 46-8XB30-1AG2	38740.-	1	24	3RA13 46-8XB30-1BB4	47590.-	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



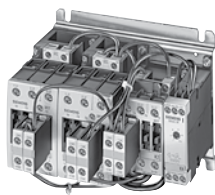
## Star Delta Contactor Assemblies - 3RA.4



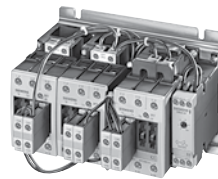
S00-S00-S00



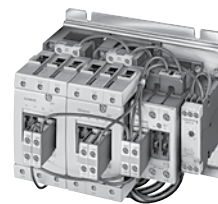
S0-S0-S0



S2-S2-S0



S2-S2-S2



S3-S3-S2

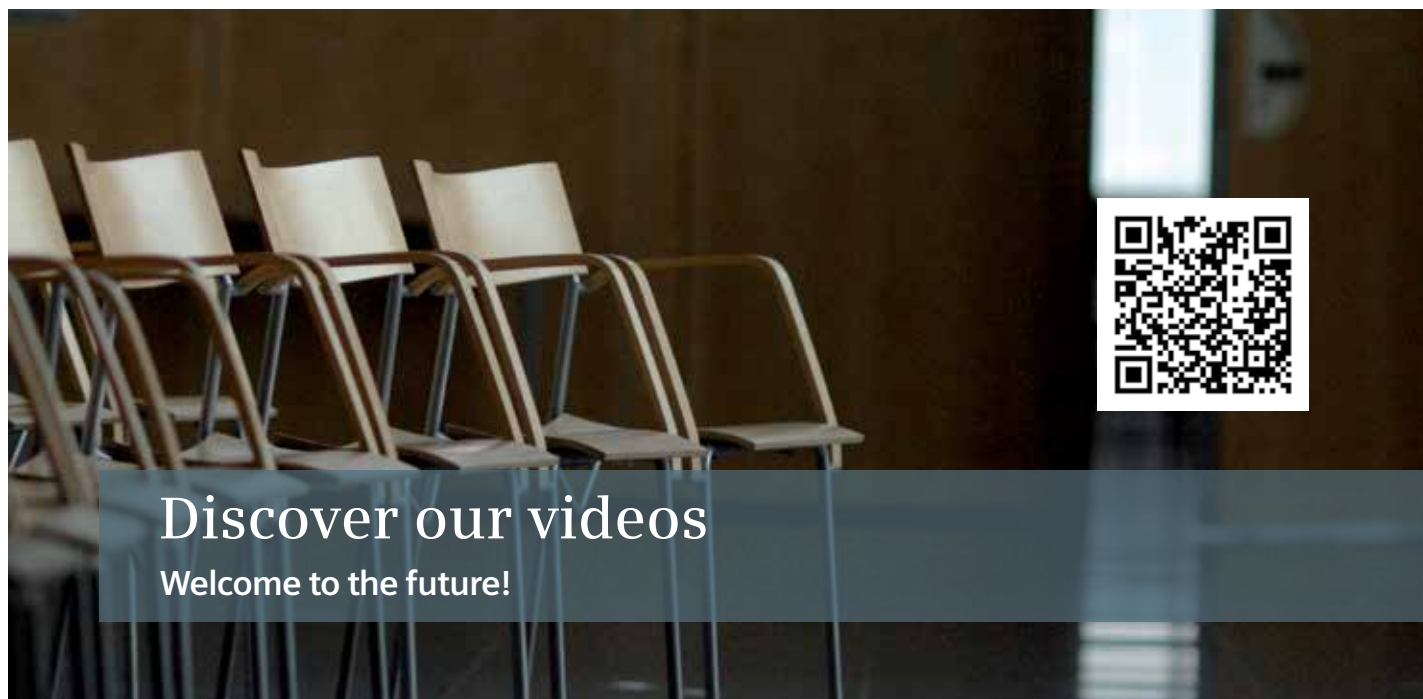
### Screw terminals

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>	Type	Unit LP ₹	Std. pkg. (nos.)	Rated control supply voltage U <sub>s</sub>	Type	Unit LP ₹	Std. pkg. (nos.)
			V AC				V DC			
S00-S00-S00	12	5.5	230	3RA24 15-8XF31-1AP0*	8695.-	1	24	3RA24 15-8XF31-1BB4*	10200.-	1
	17	7.5	230	3RA24 16-8XF31-1AP0*	9155.-	1	24	3RA24 16-8XF31-1BB4*	11105.-	1
	25	11	230	3RA24 17-8XF31-1AP0*	9600.-	1	24	3RA24 17-8XF31-1BB4*	11870.-	1
S0-S0-S0	25	11	230	3RA24 23-8XF32-1AL2*	10740.-	1	24	3RA24 23-8XF32-1BB4*	13235.-	1
	32/40	15/18.5	230	3RA24 25-8XF32-1AL2*	12350.-	1	24	3RA24 25-8XF32-1BB4*	40200.-	1
	50	22	230	3RA24 26-8XF32-1AL2*	17900.-	1	24	3RA24 26-8XF32-1BB4*	26520.-	1
S2-S2-S0	50/65	22/30	230	3RA14 34-8XC21-1AL2	20800.-	1	24	3RA14 34-8XC21-1BB4	32755.-	1
S2-S2-S2	80	37	230	3RA14 35-8XC21-1AL2	29150.-	1	24	3RA14 35-8XC21-1BB4	38950.-	1
	86	45	230	3RA14 36-8XC21-1AL2	34070.-	1	24	3RA14 36-8XC21-1BB4	47660.-	1
S3-S3-S2	115	55	230	3RA14 44-8XC21-1AL2	44870.-	1	24	3RA14 44-8XC21-1BB4	53440.-	1
	150	75	230	3RA14 45-8XC21-1AL2	54060.-	1	24	3RA14 45-8XC21-1BB4	67165.-	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"



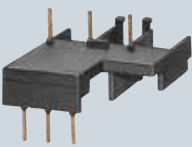



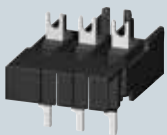



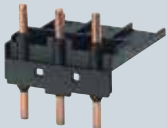




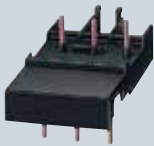




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## 3RA Load Feeders

### 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 LP ₹	Std. pkg. (nos.)
AC/DC	S00	S00	3RA19 21-1DA00	340.-	1
AC	S0	S00 / S0	3RA29 21-1AA00	330.-	1
	S2	S2	3RA19 31-1AA00	410.-	1
	S3	S3	3RA19 41-1AA00	840.-	1
DC	S0	S00 / S0	3RA29 21-1BA00	330.-	1
	S2	S2	3RA19 31-1BA00	410.-	1
	S3	S3	3RA19 41-1BA00	840.-	1



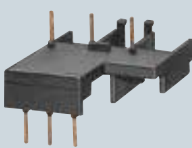












**Standard mounting rail adaptor**

Size of MPCB	Size of contactor	Type	Unit LP ₹	Std. pkg. (nos.)
S2	S2	3RA19 32-1AA00	1290.-	1
S3	S3	3RA19 42-1AA00	1625.-	1

## 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 LP ₹	Std. pkg. (nos.)
S00	S00	Rated current 25 A, 45 mm wide, 200mm long	60	8US12 51-5DS10	3540.-	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	3190.-	1
			60	8US12 61-5FP08	4430.-	1

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



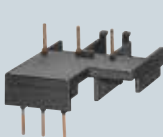
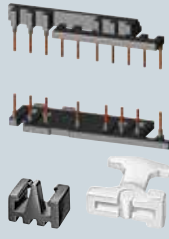


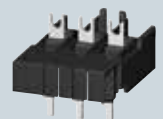
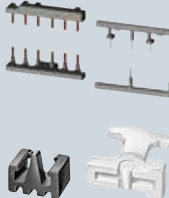











Size of MPCB	Size of contactor	Version of busbar adaptor	Busbar center to center clearance mm	Type of busbar adaptor	Unit LP ₹	Std. pkg. (nos.)
S00, S0	S00, S0	Up to 25 A, 45 mm wide, 200 mm long	60	8US12 50-5AS10	1410.-	1
						1
						1
S0	S0	Up to 400 A, 45 mm wide, 260 mm long	60	8US12 50-5AT10	2655.-	1
S2	S2	55 mm wide, 242 mm long for busbars	60	8US12 60-5AP00	4065.-	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 LP ₹	Std. pkg. (nos.)
AC/DC	S00	S00	3RA19 21-1DA00	340.-	1
AC	S0	S0	3RA29 21-1AA00	330.-	1
	S2	S2	3RA19 31-1AA00	410.-	1
	S3	S3	3RA19 41-1AA00	840.-	1
DC	S0	S0	3RA29 21-1BA00	330.-	1
	S2	S2	3RA19 31-1BA00	410.-	1
	S3	S3	3RA19 41-1BA00	840.-	1

### Assembly kit

Size of MPCB	Size of contactor	Assembly kit consists of wiring kit, connecting clips, rail adaptor	Unit LP ₹	Std. pkg. (nos.)
S00	S00	3RA29 13-2AA1®	575.-	1
S0	S0	3RA29 23-2AA1®	870.-	1
S2	S2	3RA19 33-1B	3260.-	1
S3	S3	3RA19 43-1B	3745.-	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 LP ₹	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	510.-	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	675.-	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 LP* ₹	Std. pkg. (nos.)
S00 and S0	3RT2.1, 3RT2.2 & 3RH2®	3RT29 16-4MA10	165.-	1 pack = 5 units

\* The LP 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 LP ₹	Std. pkg. (nos.)
S00	3RT2.1 & 3RT2.2	3RA29 16-1A	925.-	1
S0		3RA29 26-1A		1



### Coil terminal modules for S0

Size	For Contactor	Type	Unit LP ₹	Std. pkg. (nos.)
Connection from top	3RT2.2	3RT29 26-4RA11	300.-	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 LP ₹	Std. pkg. (nos.)
S0	3RT2.2	■ 3RH29 24-1GP11	1625.-	1



### LED modules for indicating the contactor function

Size	For Contactor	Type	Unit LP* ₹	Std. pkg. (nos.)
S0	3RT2.2	■ 3RT29 26-1QT00	540.-	1 pack = 5 units



### Links for paralleling

Size	For Contactor	Version	Max. Conductor cross-sections mm <sup>2</sup>	Type	Unit LP ₹	Std. pkg. (nos.)
S00	3RT20 1	3-Pole with connection terminal	25 (stranded)	3RT19 16-4BB31	335.-	1
S0	3RT20 2		50 (stranded)	■ 3RT19 26-4BB31	505.-	1
S00	3RT23 1 & 3RT25 1	4-Pole with connection terminal	25 (stranded)	3RT19 16-4BB41	505.-	1



### Screw adapters for easy screw fixing

2 units required per contactor

Size	Type	Unit LP ₹	Std. pkg. (nos.)
S0	3RT19 26-4P	20.-	1 pack = 10 units



### OFF-Delay Devices

Size	Rated control supply voltage U <sub>s</sub> V	Type	Unit LP ₹	Std. pkg. (nos.)
3RT2. 1, 3RT2. 2, 3RH2. ...-1BF40	110 AC/DC	3RT29 16-2BK01	3570.-	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 LP ₹	Std. pkg. (nos.)
S0	3RT2.2	24 AC/DC	3RT29 26-3AB31	2270.-	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 LP ₹	Std. pkg. (nos.)
3RT2.2	ON-Delay	1NO + 1NC	0.1 ... 30	■ 3RT29 26-2PA01	1770.-	1
			1 ... 60	3RT29 26-2PA11		1
	OFF-Delay	1NO + 1NC	0.1 ... 30	■ 3RT29 26-2PR01	2110.-	1
			1 ... 60	3RT29 26-2PR11		1



\* The LP 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 <sub>s</sub> 50/60 Hz V	Time setting range t Sec	Type*	Unit LP ₹	Std. pkg. (nos.)
<b>On-Delay</b> (Varistor integrated)	3RT2 3RH21# 3RH24	1CO	24 ... 240 VAC/DC	0.05 ... 100	3RA28 13-1AW10	1885.-	1
		1NO + 1NC			3RA28 13-1FW10		1
1CO		24 ... 240 VAC/DC	0.05 ... 100	3RA28 15-1AW10	2250.-	1	
1NO + 1NC				3RA28 15-1FW10		1	
<b>OFF-Delay</b> <u>without</u> auxiliary voltage (Varistor integrated)		1CO	24 ... 240 VAC/DC	0.05 ... 100	3RA28 14-1AW10	2070.-	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 LP ₹	Std. pkg. (nos.)
<b>On-Delay</b> (Varistor integrated)	3RT2 3RH21# 3RH24	—	24 ... 240 VAC/DC	0.05 ... 100	3RA28 11-1CW10	2055.-	1
<b>OFF-Delay</b> with auxiliary voltage		—	24 ... 240 VAC/DC	0.05 ... 100	3RA28 12-1DW10	2415.-	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 (Solid state timer block with semiconductor output)				3RA27 11-1AA00*	3340.-	3RA27121AA00*	3675.-
								
Reversing starting (S00/S0)	3RA29 13-2AA1* (S00)	575.-	3RA29 23-2AA1* (S0)	870.-	3RA27 11-1BA00*	6310.-	3RA2712-1BA00*	6930.-
								
Star delta starting (S00/S0)	3RA28 16-0EW20		3900.-		3RA27 11-1CA00*	9765.-	3RA27 12-1CA00*	10770.-
								

\*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 LP ₹	Std. pkg. (nos.)
<b>On-Delay</b> (Varistor integrated)	1NO + 1NC	24 AC/DC	0.05 ... 1	■ 3RT19 26-2EJ11	1745.-	1
			0.5 ... 10	3RT19 26-2EJ21		1
			5 ... 100	■ 3RT19 26-2EJ31		1
		100 ... 127 AC	0.05 ... 1	3RT19 26-2EC11		1
			0.5 ... 10	3RT19 26-2EC21		1
			5 ... 100	3RT19 26-2EC31		1
	200 ... 240 AC		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	2075.-	1
			0.5 ... 10	3RT19 26-2FJ21		1
			5 ... 100	3RT19 26-2FJ31		1
		100 ... 127 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	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	1910.-	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 LP ₹	Std. pkg. (nos.)
<b>On-Delay</b> (Varistor integrated)	–	24 ... 66 AC/DC	0.05 ... 1	3RT19 26-2CG11	1895.-	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	2225.-	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 LP ₹	Std. pkg. (nos.)
S2, S3	24 DC	3RT19 16-2BE01	3505.-	1

### Mechanical latching blocks

Size	Rated control supply voltage $U_s$ V	Type	Unit LP ₹	Std. pkg. (nos.)
S2	24 AC/DC	■ 3RT19 26-3AB31	2225.-	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 LP ₹	Std. pkg. (nos.)
		Rated control supply voltage (U <sub>s</sub> )				
		V AC	V DC			
S2, S3	Varistors	24 ... 48	24 ... 70	3RT19 26-1BB00	695.-	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) come 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	695.-	1
		48 ... 127	70 ... 150	3RT19 56-1CC00	2205.-	1
		127 ... 240	150 ... 250	3RT19 56-1CD00		1
		240 ... 400	–	3RT19 56-1CE00	695.-	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 LP ₹	Std. pkg. (nos.)
S2 ... S3	■ 3RH19 24-1GP11	1705.-	1



### LED modules for indicating the contactor function

Size	Type	Unit LP* ₹	Std. pkg. (nos.)
S2 ... S12	■ 3RT19 26-1QT00	2775.-	1 pack = 5 units

\* The LP mentioned is for 1 unit



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

### Box terminal blocks

Size	Version	Type	Unit LP ₹	Std. pkg. (nos.)
S6	For round and ribbon cables (Upto 70 mm <sup>2</sup> )	3RT19 55-4G	1250.-	1
	For round and ribbon cables (Upto 120 mm <sup>2</sup> )	3RT19 56-4G	1765.-	1
	Auxiliary conductor connection for box terminals	3TX7 500-0A	710.-	1
S10 / S12	Upto 240 mm <sup>2</sup> with auxiliary conductor connection	3RT19 66-4G	5005.-	1



### Covers

#### Terminal covers for box terminals

Size	Version	Type	Unit LP ₹	Std. pkg. (nos.)
S2	3 Pole	3RT19 36-4EA2	430.-	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	665.-	1
S10 / S12	Length of 30 mm	3RT19 66-4EA2	1170.-	1



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

S3	Length of 55 mm	3RT19 46-4EA1	605.-	1
S6	Length of 100 mm	3RT19 56-4EA1	1165.-	1
S10 / S12	Length of 120 mm	3RT19 66-4EA1	1500.-	1

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

S10 / S12	Length of 42 mm	3RT19 66-4EA3	1005.-	1
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#### For busbar cover of the flat line connectors for reversing and wye-delta assemblies

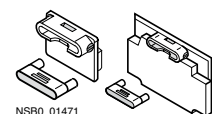
S6	Length of 38 mm	3RT19 56-4EA4	925.-	1
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### Sealable Covers

Size	Type	Unit LP ₹	Std. pkg. (nos.)
S2 ... S12	3RT19 26-4MA10	66.-	1 pack = 5 units

\* The LP mentioned is for 1 unit



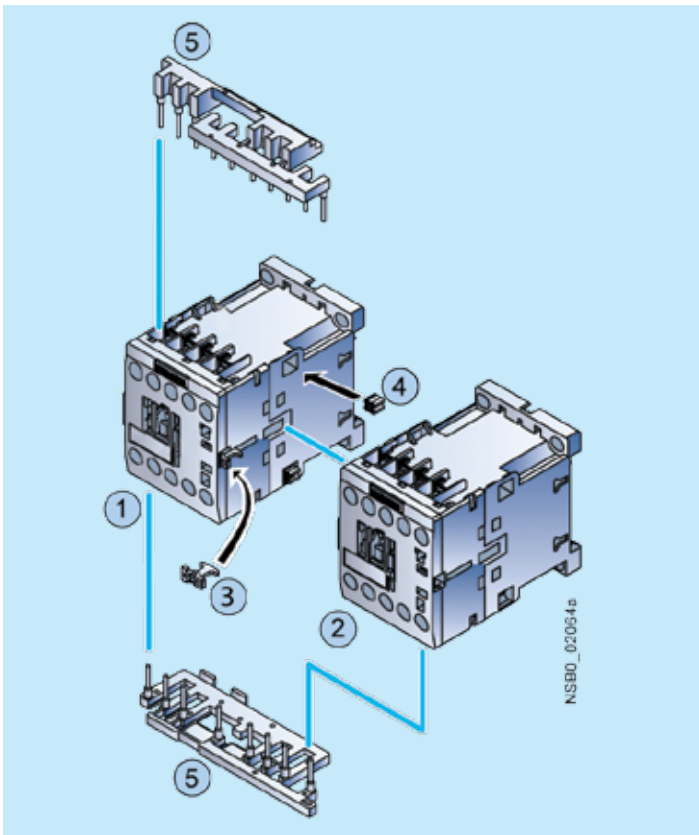
### Links for paralleling

Size	Version	Max. Conductor cross-sections mm <sup>2</sup>	Type	Unit LP ₹	Std. pkg. (nos.)
S2	3-Pole with connection terminal	95	3RT19 36-4BB31	665.-	1
S3	3-Pole with through hole (Star Jumpers)	185	3RT19 46-4BB31	1830.-	1
S6		—	3RT19 56-4BA31	1005.-	1
S10 / S12		—	3RT19 66-4BA31	1330.-	1



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*	LP ₹ (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*	575.-	1 Unit
B	3RT2. 1	Each set contains: Mechanical interlock & 2 Connecting clips	3RA29 12-2H	315.-	1 pack (1 pack = 10 Sets)

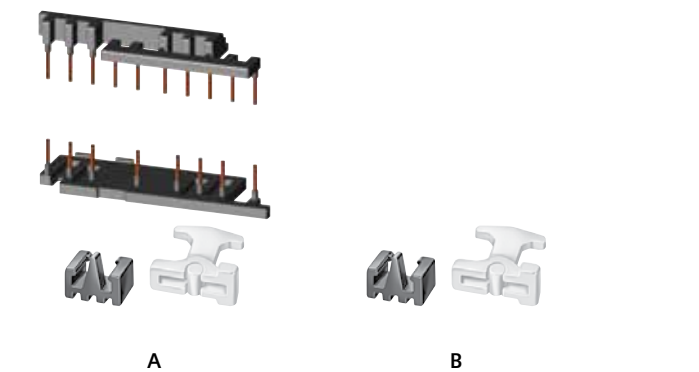
\* For ordering installation kit with spring type terminals please replace last digit from '1' to '2'

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	–	–

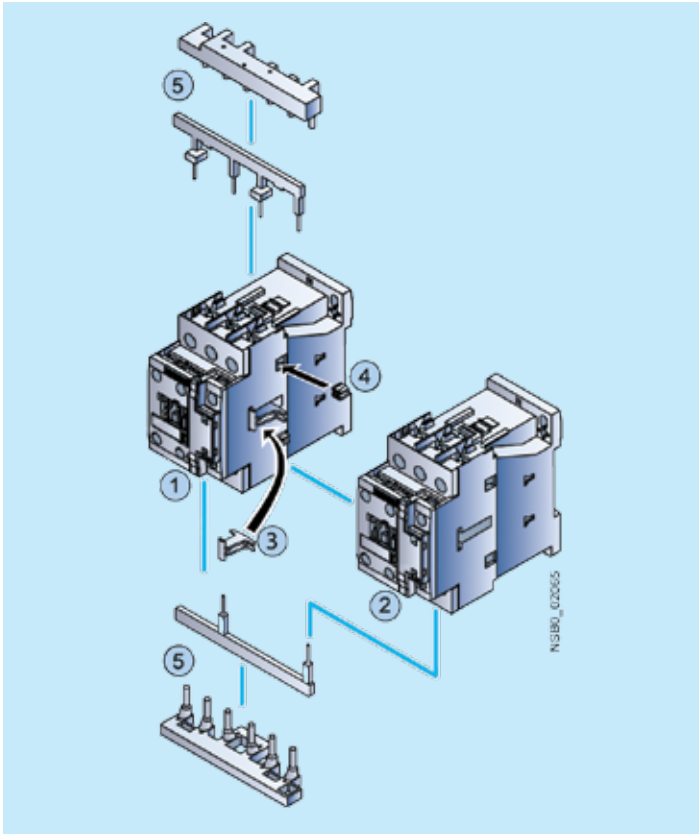


■ Stock items

LP - List 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	LP ₹ (per unit / set)	Std. pkg. (nos.)
A	3RT20 2	Installation Kit Each kit contains: Mechanical interlock 2 Connecting clips for 2 contactors, wiring modules on the top & bottom	3RA29 23-2AA1*	870.-	1 Unit
B	3RT20 2	Each set contains: Mechanical interlock & 2 Connecting clips	3RA29 22-2H	315.-	1 pack (1 pack = 10 Sets)

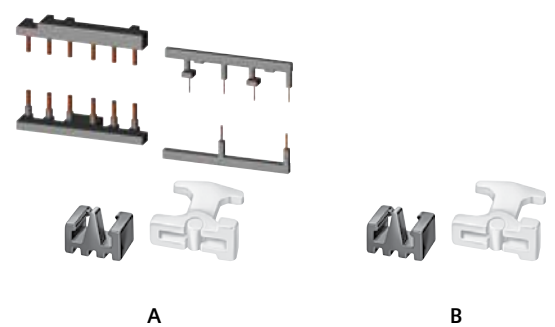
\* For ordering installation kit with spring type terminals please relace last digit from '1' to '2'

Mechanical Interlock - Size S0

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

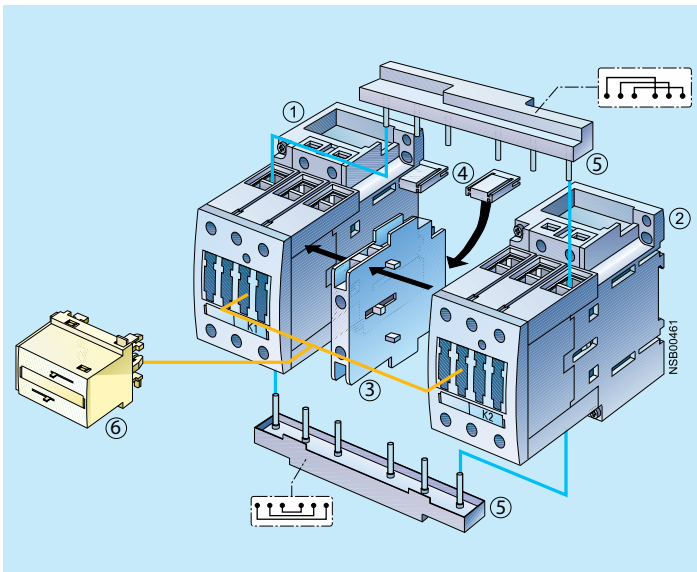
Installation Assembly for reversing contactor - Size S0

	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

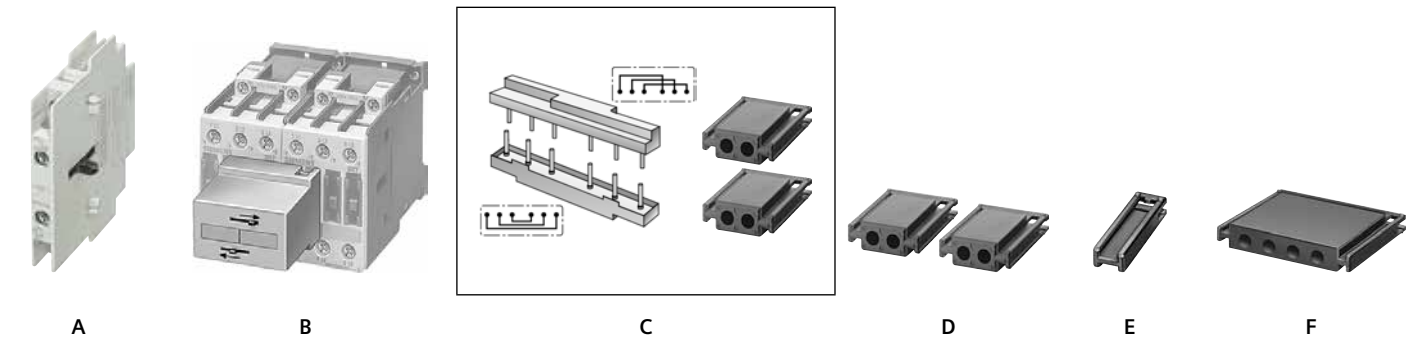
S. No.	For Contactor	Description	Type	LP ₹ (per unit / set)	Std. pkg. (nos.)
A	3RT10 3 3RT13 3 3RT15 3	Lateral Mounted Mechanical Interlock (same as S0)	■ 3RA19 24-2B	565.-	1 Unit
B	3RT10 3	Front Mounted Mechanical Interlock	3RA19 24-1A	565.-	1 Unit
C	3RT10 3 1. 4 1. 5	Installation Kit Each kit contains: 2 Connecting clips for 2 contactors for lateral mounting, wiring modules on the top & bottom	3RA19 33-2A	325.-	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	1615.-	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	1615.-	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	1615.-	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	–	–

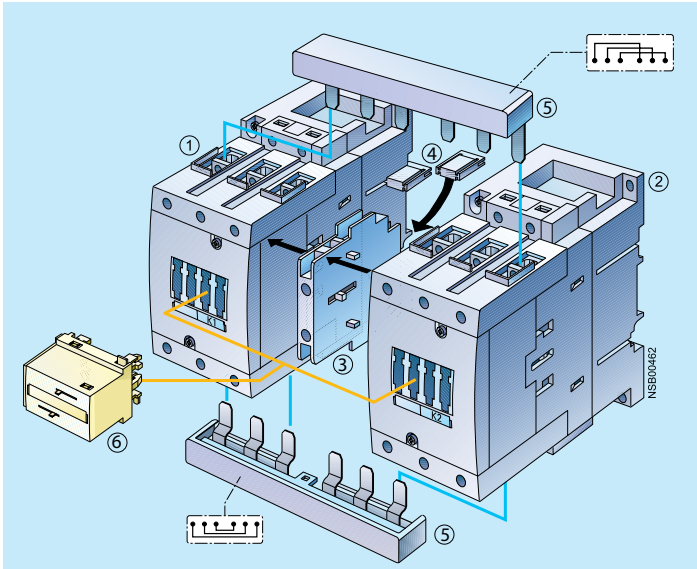


■ Stock items



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

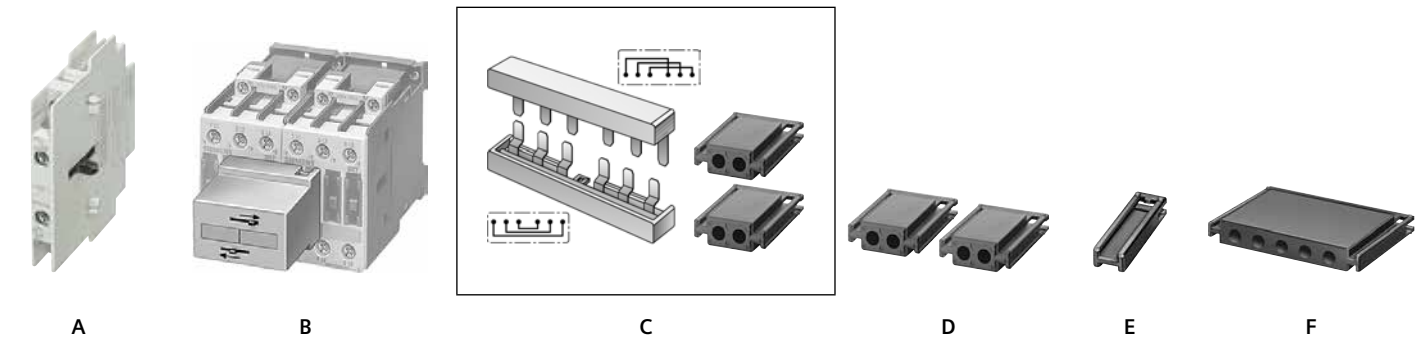
S. No.	For Contactor	Description	Type	LP ₹ (per unit / set)	Std. pkg. (nos.)
A	3RT10 4 3RT13 4	Lateral Mounted Mechanical Interlock (same as S0)	■ 3RA19 24-2B	565.-	1 Unit
B	3RT10 4	Front Mounted Mechanical Interlock	3RA19 24-1A	565.-	1 Unit
C	3RT10 4	Installation Kit Each kit contains: 2 Connecting clips for 2 contactors for lateral mounting, wiring modules on the top & bottom	3RA19 43-2A	805.-	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	1615.-	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	1615.-	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	3235.-	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

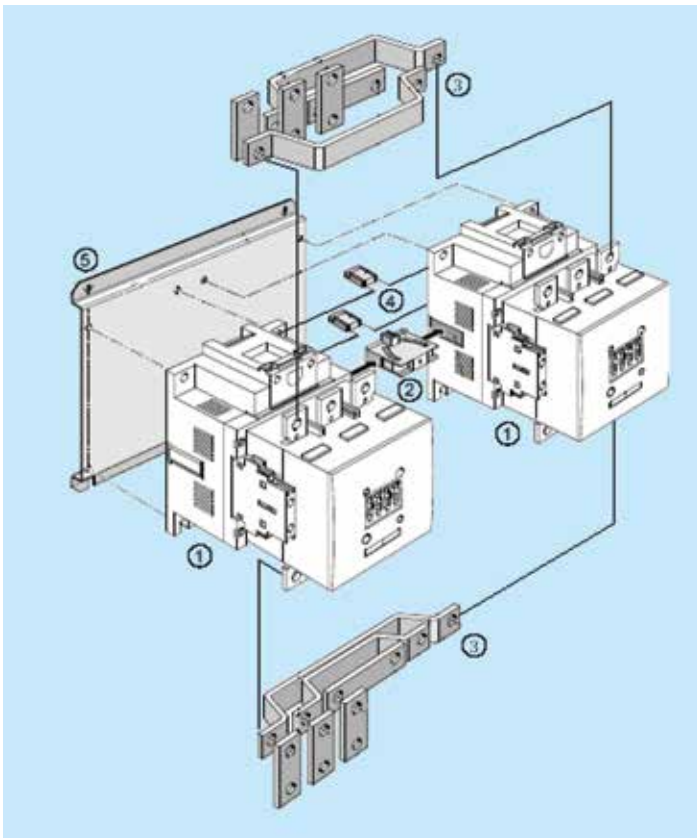
	3-Pole	4-Pole
Lateral Mounting with 1NC contact	A+C	–
Front Mounting	–	–



■ 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	LP ₹ (per unit / set)	Std. pkg. (nos.)
A	3RT1. 5 3RT1. 6 3RT1. 7	Lateral Mounted Mechanical Interlock	■ 3RA19 54-2A	1785.-	1 Unit
B	3RT10 5	Base Plate	3RA19 52-2A	2695.-	1 Unit
C	3RT10 5	Installation Kit Each kit contains wiring modules on the top & bottom (For connection with box terminals)	3RA19 53-2A	3545.-	1 Unit
D	3RT10 5	Installation Kit Each kit contains wiring modules on the top & bottom (For connection without box terminals)	3RA19 53-2M	1785.-	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	1615.-	1 pack (1 pack = 10 Sets)

Mechanical Interlock - Size S6

	3-Pole
Lateral Mounting	A

Installation Assembly for reversing cont. - Size S6

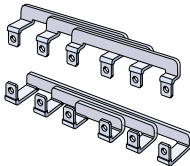
	3-Pole
Lateral Mounting (For contactor <u>with</u> box terminal)	A+B+C+E
Lateral Mounting (For contactor <u>without</u> box terminal)	A+B+D+E



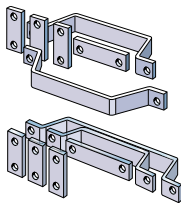
A



B



C



D



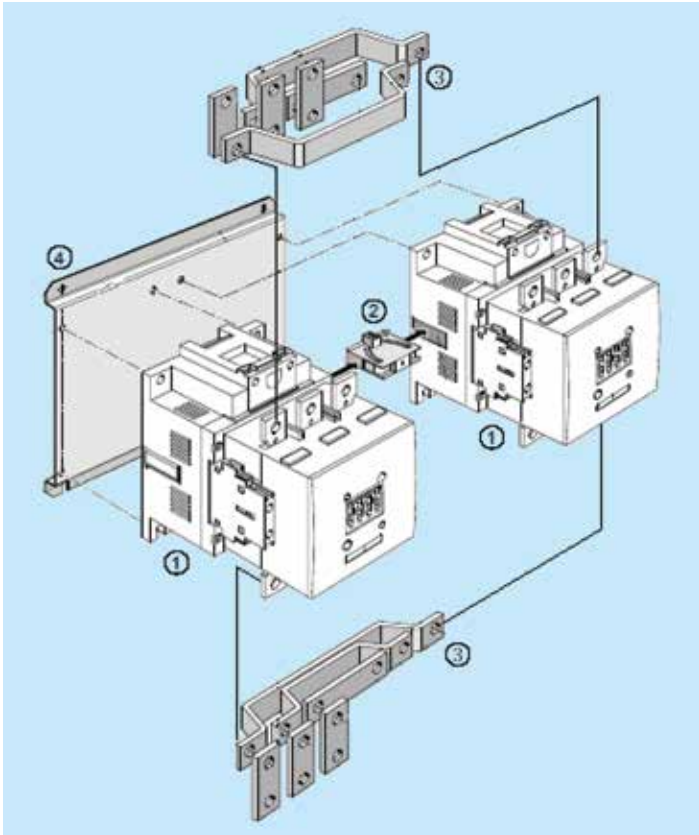
E

■ Stock items

LP - List 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

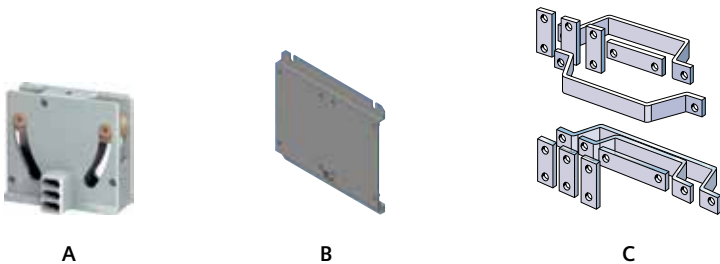
S. No.	For Contactor	Description	Type	LP ₹ (per unit)	Std. pkg. (nos.)
A	3RT1. 5 3RT1. 6 3RT1. 7	Lateral Mounted Mechanical Interlock	■ 3RA19 54-2A	1785.-	1 Unit
B	3RT1. 6	Base Plate	3RA19 62-2A	4040.-	1 Unit
C	3RT1. 6	Installation Kit Each kit contains wiring modules on the top & bottom (For connection without box terminals)	3RA19 63-2A	5325.-	1 Unit

Mechanical Interlock - Size S10

	3-Pole
Lateral Mounting	A

Installation Assembly for reversing cont. - Size S10

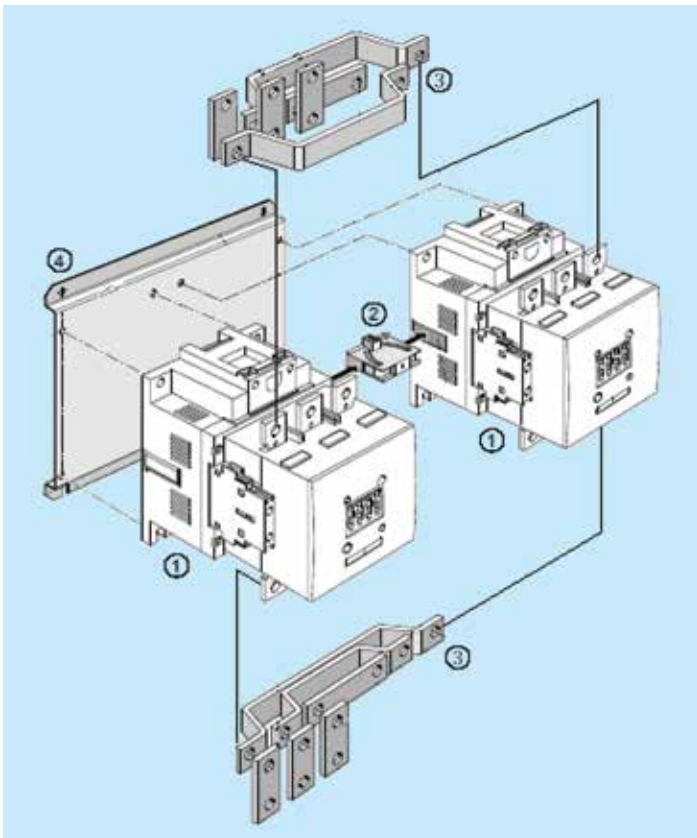
	3-Pole
Lateral Mounting (For contactor <u>with</u> box terminal)	A+B+C



■ 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

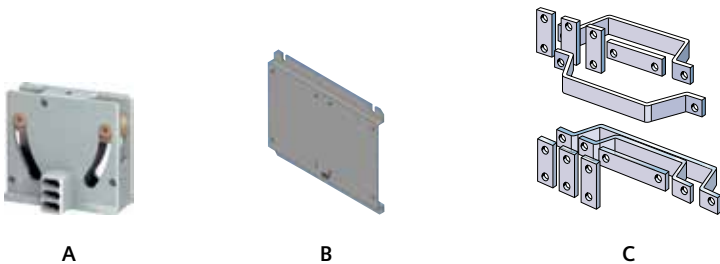
S. No.	For Contactor	Description	Type	LP ₹ (per unit)	Std. pkg. (nos.)
A	3RT1. 7	Lateral Mounted Mechanical Interlock	■ 3RA19 54-2A	1785.-	1 Unit
B	3RT1. 7	Base Plate	3RA19 72-2A	4710.-	1 Unit
C	3RT1. 7	Installation Kit Each kit contains wiring modules on the top & bottom (For connection without box terminals)	3RA19 73-2A	7105.-	1 Unit

Mechanical Interlock - Size S12

	3-Pole
Lateral Mounting	A

Installation Assembly for reversing cont. - Size S12

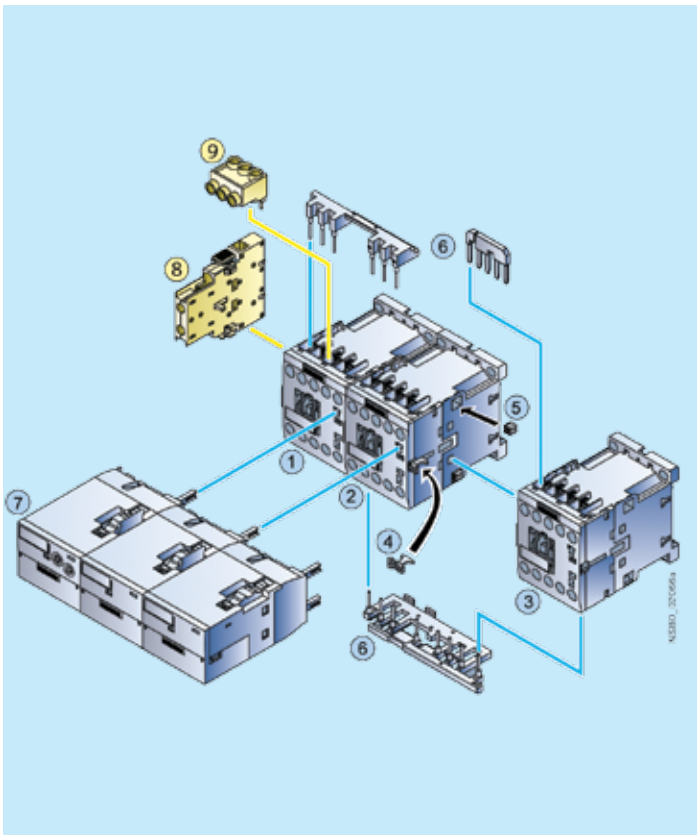
	3-Pole
Lateral Mounting (For contactor <u>with</u> box terminal)	A+B+C



■ Stock items

Accessories for 3RT2 Contactors

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

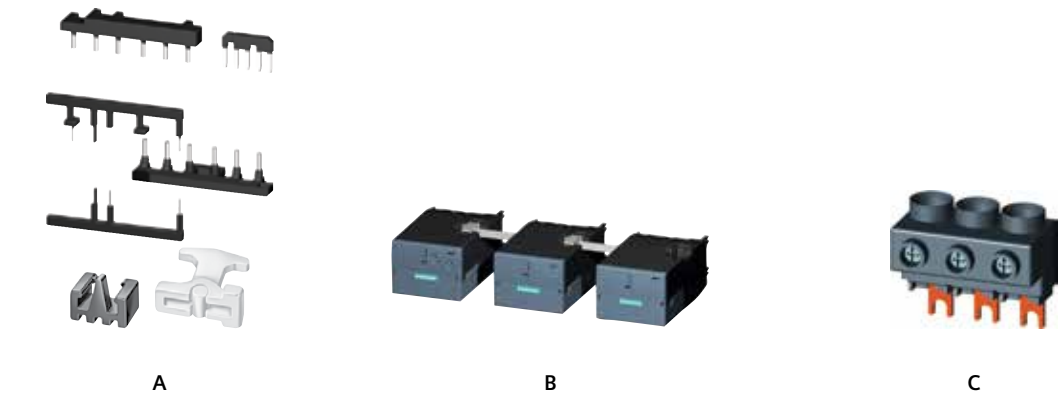


Individual Components

- 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 LP ₹	Std. pkg. (nos.)
A	3RT20 1	Installation Kit Each kit contains: Mechanical interlock 4 Connecting clips, wiring modules on the top & bottom, Star jumper	■ 3RA29 13-2BB1*	315.-	1 Unit
B	3RT20 1	Function module	■ 3RA28 16-0EW20	3900.-	1 Unit
C	3RT20 1	3-phase feeder terminal	■ 3RA29 13-3K	470.-	5 Unit

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

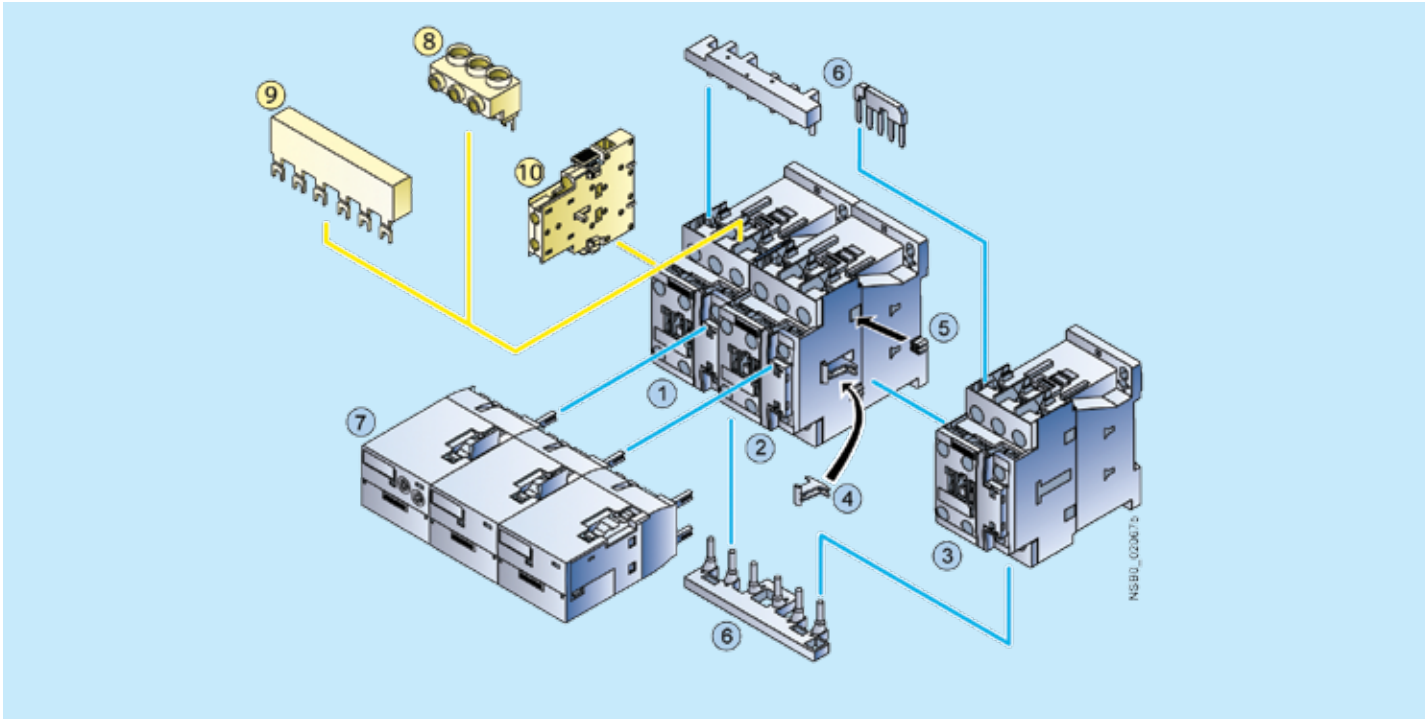


■ Stock items



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

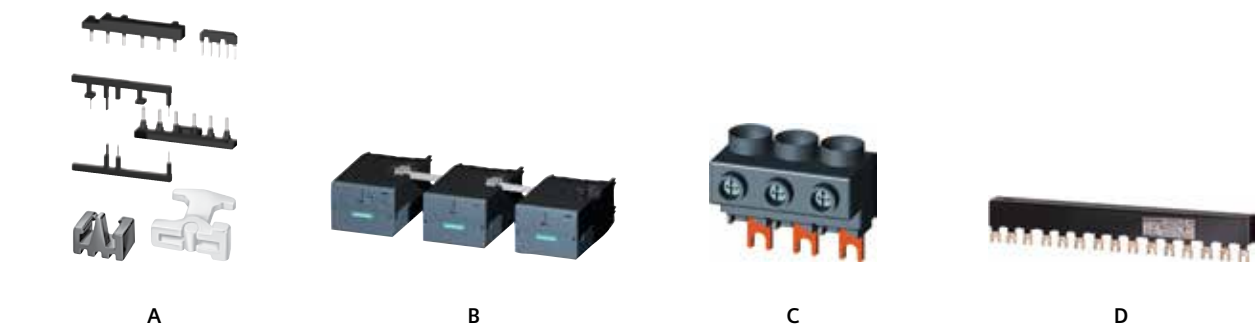
3-phase feeder terminal (optional, to be ordered separately)
- ⑨

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 LP ₹	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*	955.-	1 Unit
B	3RT20 2	<u>Function module</u>	■ 3RA28 16-0EW20	3900.-	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

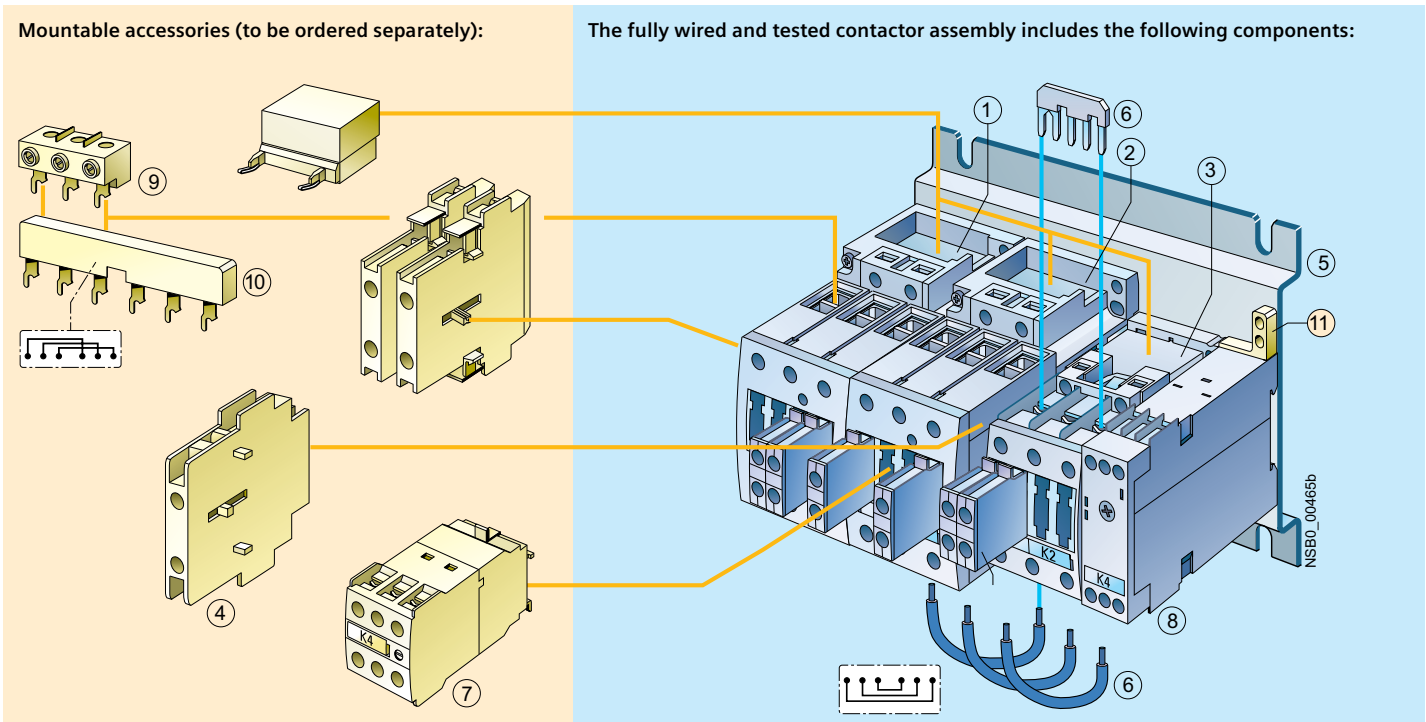
\* For ordering installation kit with spring type terminals please replace last digit from '1' to '2'



■ Stock items

Accessories for 3RT1 Contactors

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



Individual Components

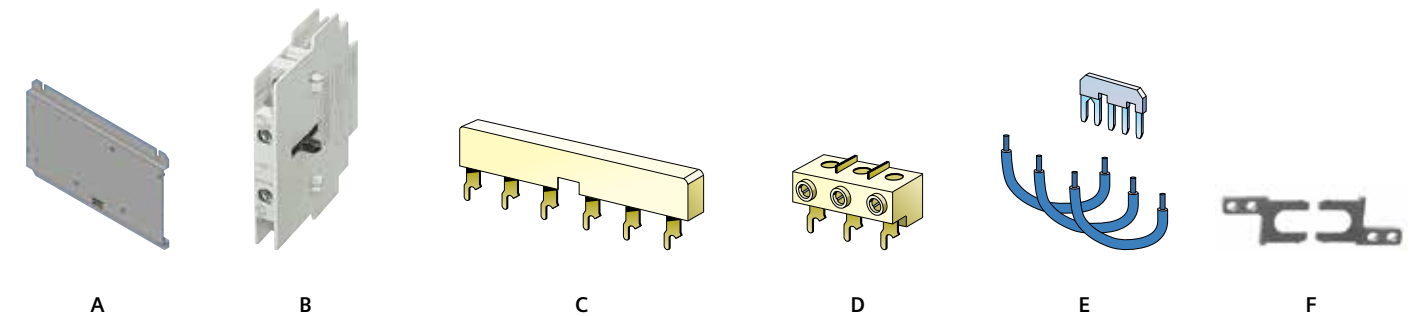
- ① ② ③ Power Contactors:  
Line : S2  
Delta : S2  
Star: S0
- ④ Mechanical interlock, lateral
- ⑤ Base plate
- ⑥ Wiring modules on the bottom and star jumper on the top for connecting the main current paths

- 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	LP ₹ (per unit / pack)	Std. pkg. (nos.)
A	Base plate	■ 3RA19 32-2B	485.-	1 Unit
B	Mechanical interlock, lateral	■ 3RA19 24-2B	565.-	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	410.-	1 Unit
F	Push-in lug	■ 3RP19 03-8K	160.-*	1 pack (1 pack = 10 Sets)

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

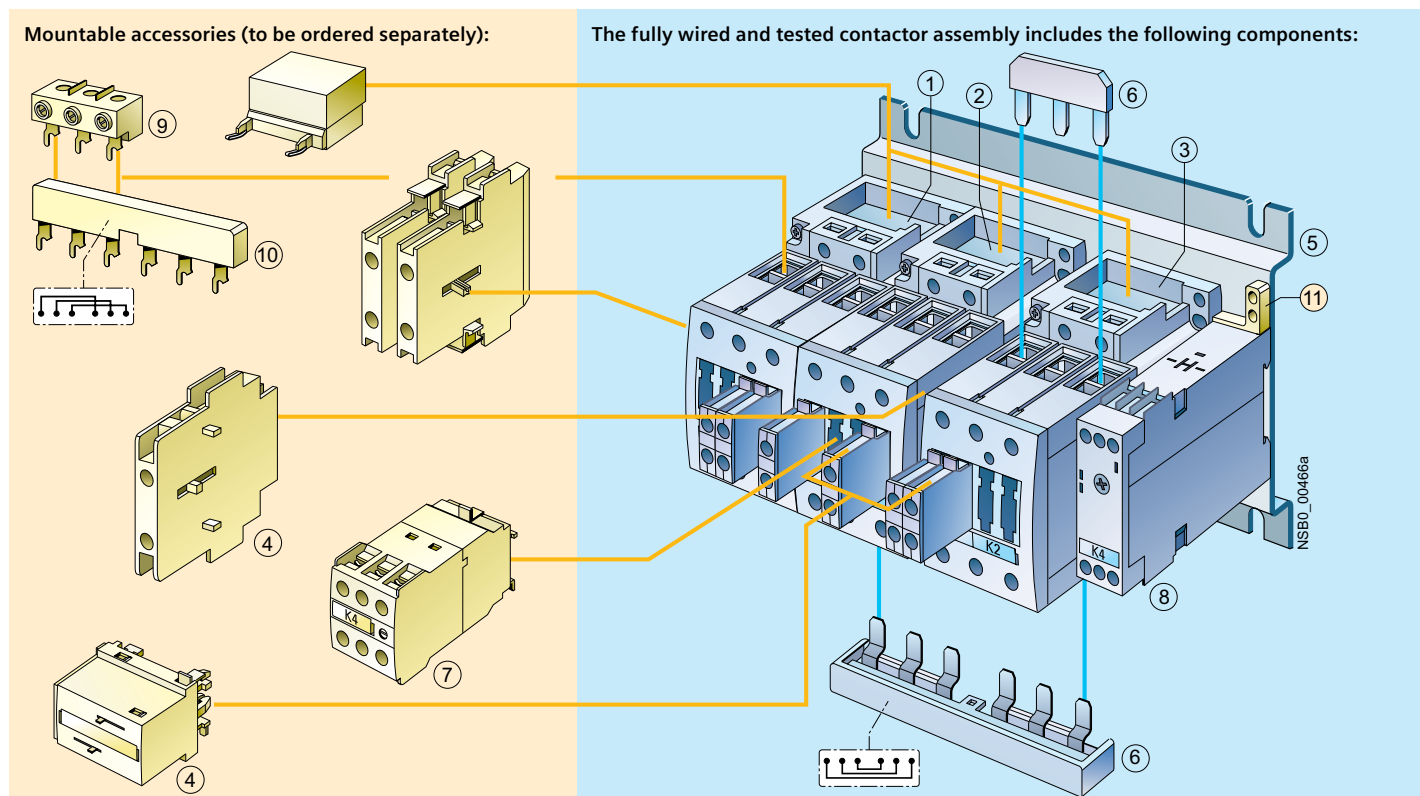
\* The LP mentioned is for 1 pack



■ Stock items

## Accessories for 3RT1 Contactors

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



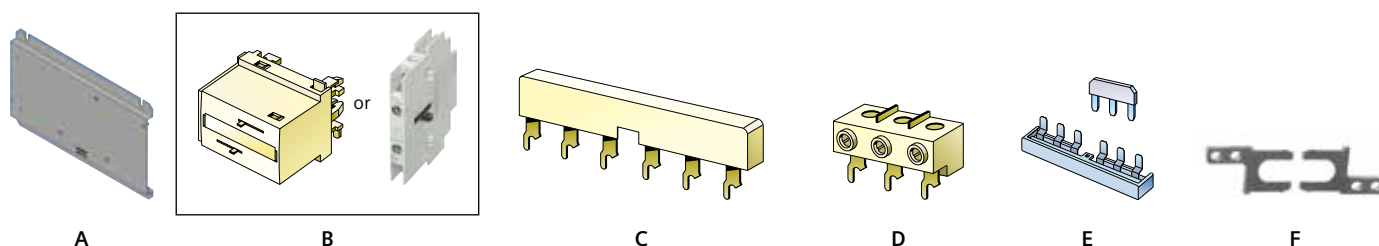
#### Individual Components

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

S. No.	Description	Type	LP ₹ (per unit / pack)	Std. pkg. (nos.)
A	Base plate	■ 3RA19 32-2F	485.-	1 Unit
B	Mechanical interlock - front or lateral	■ 3RA19 24-1A or ■ 3RA19 24-2B	565.-	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	485.-	1 Unit
F	Push-in lug	■ 3RP19 03-8K	160.-*	1 pack (1 pack = 10 Sets)

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

\* The LP mentioned is for 1 pack

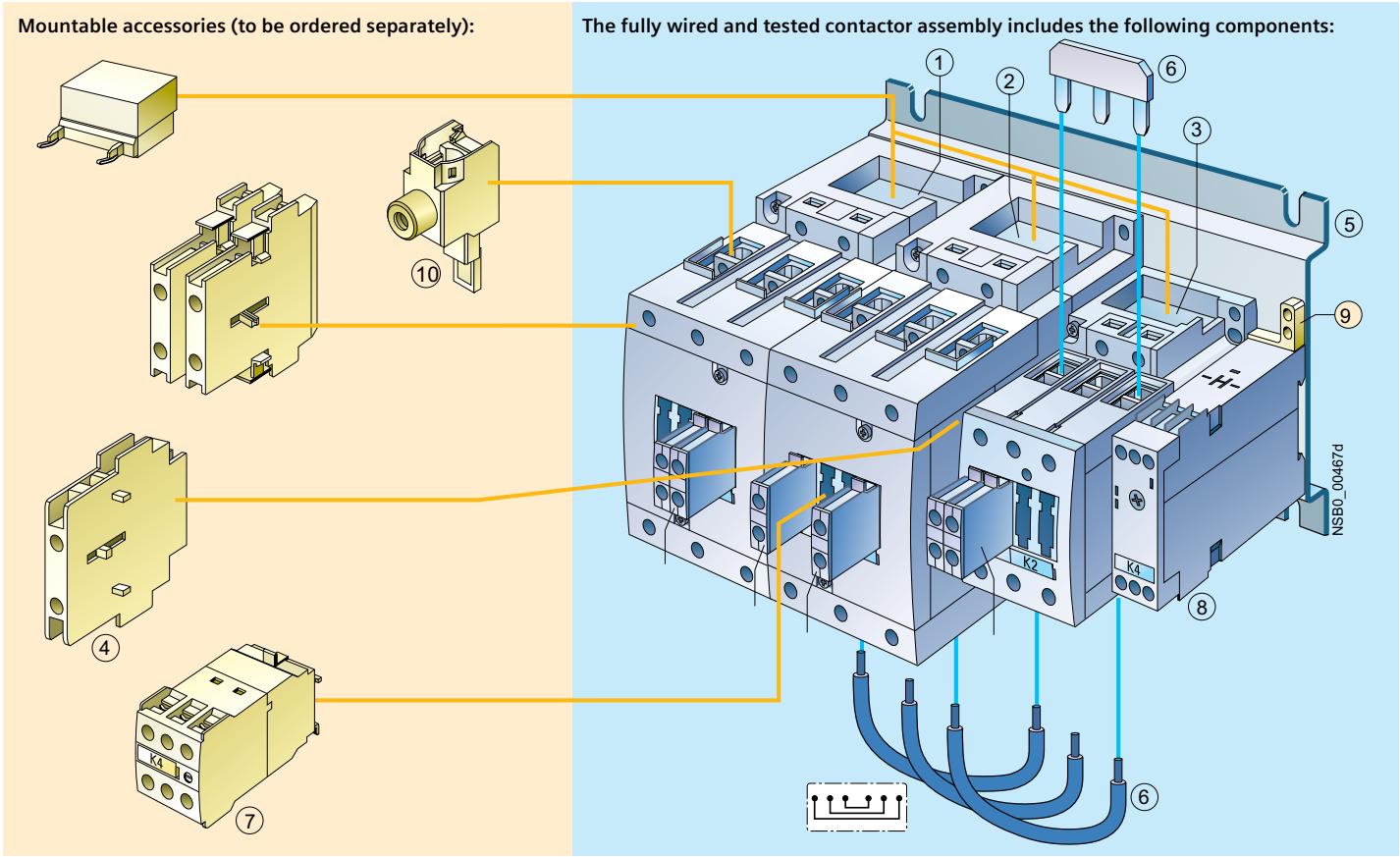


■ Stock items

LP - List Price

Accessories for 3RT1 Contactors

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



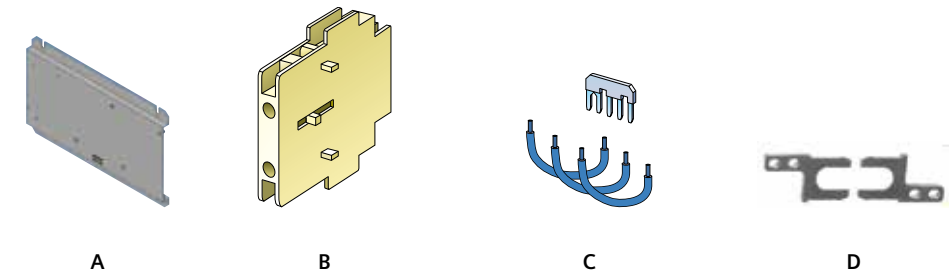
Individual Components

- 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	LP ₹ (per unit / pack)	Std. pkg. (nos.)
A	Base plate	■ 3RA19 42-2E	565.-	1 Unit
B	Mechanical interlock lateral	■ 3RA19 24-2B	565.-	1 Unit
C	Installation Kit Each kit contains: Wiring modules on bottom, Star jumper	■ 3RA19 43-2C	565.-	1 Unit
D	Push-in lug	■ 3RP19 03-8K	160.-*	1 pack (1 pack = 10 Sets)

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

\* The LP mentioned is for 1 pack



■ Stock items

## Accessories for 3RT12

Description	Type	Unit LP ₹	Std. pkg. (nos.)
Line voltage surge suppressors upto 690V AC	3RT19 66-1PV3	5975.-	1
upto 1000V AC	3RT19 66-1PV4	8735.-	1
Auxiliary contact blocks second, 2NO	3RH19 21-1KA20	720.-	1
second, 1NO+1NC	3RH19 21-1KA11	720.-	1
second, 2NC	3RH19 21-1KA02	720.-	1
Mechanical interlock mechanism	3RA19 54-2A	1785.-	1
Coil surge suppressor RC element, for 110V-127V coil	3RT19 56-1CC00	2205.-	1
RC element, for 220V-240V coil	3RT19 56-1CD00	2205.-	1

## Accessories for 3RT23/25

Contactor size	Description	Type	Unit LP ₹	Std. pkg. (nos.)
Mechanical Interlock for 3RT23				
S00 - S00	Side mounting (1 pack = 10 pcs)	3RA29 12-2H	315.-	1 pack
S0 - S0		3RA29 22-2H	315.-	1 pack

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

## Accessories for 3RT13/15/16

Contactor size	Description	Type	Unit LP ₹	Std. pkg. (nos.)
Front mounted auxiliary contact block (for 3RT 13/15)				
S2-S12	1NO	3RH19 21-1CA10*	165.-	1
	1NC	3RH19 21-1CA01*	165.-	1
	2NO+2NC	3RH19 21-1FA22	610.-	1
Side mounted auxiliary contact block (for 3RT 13/15/16)				
S2-S12	2NO	3RH19 21-1EA20	720.-	1
	1NO+1NC	3RH19 21-1EA11	720.-	1
	2NC	3RH19 21-1EA02	720.-	1
Mechanical interlock kit (for 3RT 13)				
S2, S3	front mounting	3RA19 24-1A	565.-	1
	side mounting	3RA19 24-2B®	565.-	1

\* Exception - 3RT12 & 3RT16

@ With built in 1NC per contactor

## 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 LP ₹	Std. pkg. (nos.)	Contactor type	Rated control supply voltage U <sub>s</sub> V DC	Type	Unit LP ₹	Std. pkg. (nos.)
S0	3RT20 23.. 3RT20 24.. 3RT20 25..	24V	3RT29 24-5AC21	545.-	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	710.-	1	3RT10 3 3RT13 3 3RT15 3	24V	3RT19 34-5BB41	1250.-	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	1415.-	1					
		110V	3RT19 35-5AG21		1					
		230V	3RT19 35-5AL21		1					
		400V	3RT19 35-5AV01		1					
S3	3RT10 44	24V	3RT19 44-5AC21	2505.-	1	3RT10 4 3RT13 4 3RT14 4 3RT15 4	24V	3RT19 44-5BB41	3175.-	1
		110V	3RT19 44-5AG21	2505.-	1		110V	3RT19 44-5BF41		1
		230V	3RT19 44-5AL21	2505.-	1		220V	3RT19 44-5BM41		1
		400V	3RT19 44-5AV01	2625.-	1					
	3RT10 45/46 3RT13 4. 3RT14 46 3RT15 4.	24V	3RT19 45-5AC21	2505.-	1					
		110V	3RT19 45-5AG21	2505.-	1					
		230V	3RT19 45-5AL21	2505.-	1					
		400V	3RT19 45-5AV01	2625.-	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 LP ₹	Std. pkg. (nos.)
S10	3RT12 6	23...26V AC/DC	3RT19 66-5AB31	7765.-	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	9345.-	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 LP ₹	Std. pkg. (nos.)
S10	3RT12 6	96...127V	3RT19 66-5NF31	10015.-	1
		200...277V	3RT19 66-5NP31		1
S12	3RT12 7	21...27.3V	3RT19 75-5NB31	13225.-	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]

Size	AC Coil				
	Contactor type	Rated control supply voltage $U_c$ at 40 to 60Hz AC, DC V AC/DC	Type	Unit LP ₹	Std. pkg. (nos.)
S6	3RT10 5 3RT14 5	96...127V AC/DC	3RT19 55-5PF31	15025.-	1
		200...277V AC/DC	3RT19 55-5PP31	15025.-	1
S10	3RT10 6 3RT14 6	96...127V AC/DC	3RT19 65-5PF31	19040.-	1
		200...277V AC/DC	3RT19 65-5PP31	19040.-	1
S12	3RT10 7 3RT14 7	96...127V AC/DC	3RT19 75-5PF31	25390.-	1
		200...277V AC/DC	3RT19 75-5PP31	25390.-	1



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

### Arc Chambers for 3RT10 / 3RT14

Size	Contactor type	Version	Type	Unit LP ₹	Std. pkg. (nos.)
S2	3RT10 3	Arc chutes 3-pole	3RT19 36-7A	1185.-	1
S3	3RT10 4		3RT19 46-7A	1990.-	1
	3RT14 46 <sup>1)</sup>		3RT19 46-7A	1990.-	1
S6	3RT10 54		3RT19 54-7A	2375.-	1
	3RT10 55		3RT19 55-7A	2685.-	1
	3RT10 56		3RT19 56-7A	2955.-	1
S10	3RT10 64		3RT19 64-7A	3035.-	1
	3RT10 65		3RT19 65-7A	3275.-	1
	3RT10 66		3RT19 66-7A	3385.-	1
S12	3RT10 75		3RT19 75-7A	3805.-	1
	3RT10 76		3RT19 76-7A	3915.-	1
S6	3RT14 56 <sup>1)</sup>		3RT19 56-7B	3930.-	1
S10	3RT14 66 <sup>1)</sup>		3RT19 66-7B	4595.-	1
S12	3RT14 76 <sup>1)</sup>		3RT19 76-7B	5430.-	1

1) For 3RT14 AC-1 duty power contactors

## Adaptor plates

Description (Adaptor plates for using in place of 3TF/3TR contactors)	MLFB	Unit LP ₹	MOQ
3RT10/3RT20 15/16/17 replacing 3TF/3TR 30/31	3TX80120A	100.-	5
3RT10/3RT20 25/26 replacing 3TF/3TR 32/33	3TX80250A	150.-	5
3RT10 34/35 replacing 3TF/3TR 34/35	3TX80400A	210.-	5
3RT10 36 replacing 3TF/3TR 46	3TX80500A	245.-	5
3RT10 44/45 replacing 3TF/3TR 47 / 3TF 477	3TX80800A	490.-	1
3RT10 45/46 replacing 3TF/3TR 48/49	3TX80950A	510.-	1
3RT10 56 replacing 3TF/3TR 52	3TX81850A	880.-	1
3RT10 64 replacing 3TF/3TR 53	3TX82250A	945.-	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 LP ₹	MOQ
3RU29/3RU19 (1.8-25A) replacing 3UA/3UR 52 (1-25A)	3UX8025	240.-	1
3RU19 (5.5-50A) replacing 3UA/3UR 55 (10-45A)	3UX8050	285.-	1
3RU19 (18-100A) replacing 3UA/3UR 58 (16-95A) & replacing 3UA/3UR 5830 (70-120A)	3UX8100	320.-	1

## Contacts with fixing parts

### For 3RT10, 3 pole power contactors

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

Size	Contactor type	Type	Unit LP ₹	Std. pkg. (nos.)
S2	3RT10 34	3RT19 34-6A	1850.-	1
	3RT10 35	3RT19 35-6A	2595.-	1
	3RT10 36	3RT19 36-6A	3005.-	1
S3	3RT10 44	3RT19 44-6A	4000.-	1
	3RT10 45	3RT19 45-6A	5330.-	1
	3RT10 46	3RT19 46-6A	7175.-	1
S6	3RT10 54	3RT19 54-6A	7840.-	1
	3RT10 55	3RT19 55-6A	9835.-	1
	3RT10 56	3RT19 56-6A	12515.-	1
S10	3RT10 64	3RT19 64-6A	14185.-	1
	3RT10 65	3RT19 65-6A	15850.-	1
	3RT10 66	3RT19 66-6A	18690.-	1
S12	3RT10 75	3RT19 75-6A	24685.-	1
	3RT10 76	3RT19 76-6A	31700.-	1

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

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

Size	Contactor type	Type	Unit LP ₹	Std. pkg. (nos.)
S3	3RT14 46	3RT19 46-6D	11840.-	1
S6	3RT14 56	3RT19 56-6D	19020.-	1
S10	3RT14 66	3RT19 66-6D	29625.-	1
S12	3RT14 76	3RT19 76-6D	38035.-	1

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

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

Size	Contactor type	Type	Unit LP ₹	Std. pkg. (nos.)
S2	3RT13 26	3RT19 36-6E	3675.-	1
S3	3RT13 44	3RT19 44-6E	11010.-	1
	3RT13 46	3RT19 46-6E	13765.-	1

## Spares for 3RT12 vacuum contactors

For contactor		Type	Unit LP ₹	Std. pkg. (nos.)
Spare coils <sup>1)</sup>				
3RT126		3RT19 66-5A..1	7765.-	1
3RT127		3RT19 75-5AB31 3RT19 75-5AV31 3RT19 75-5AF31 8K 3RT19 75-5AP31 8K	9345.-	1
Solid state operating mechanism				
3RT126	96... 127V AC/DC	3RT19 66-5NF31	10015.-	1
	200...277V AC/DC	3RT19 66-5NP31	10015.-	1
3RT127	200...277V AC/DC	3RT19 75-5NP31	13225.-	1
Spare vacuum bottles (set of 3)				
3RT1264 3RT1265 3RT1266		3RT19 64-6V	50280.-	1
		3RT19 65-6V	58055.-	1
		3RT19 66-6V	70825.-	1
3RT1275 3RT1276		3RT19 75-6V	85585.-	1
		3RT19 76-6V	103020.-	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

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..	1055.-	1	4NO <sup>§</sup>	■ 3TH30 40-0B..	1475.-	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

Size	Rated current (A) Ie AC3 upto 415V	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..	940.-	1	1NO <sup>§</sup>	■ 3TF30 10-0B..	1615.-	1
			1NC <sup>§</sup>	■ 3TF30 01-0A..			1NC <sup>§</sup>	■ 3TF30 01-0B..		
	12	5.5	1NO <sup>§</sup>	■ 3TF31 10-0A..	1055.-	1	1NO <sup>§</sup>	■ 3TF31 10-0B..	1760.-	1
			1NC <sup>§</sup>	■ 3TF31 01-0A..			1NC <sup>§</sup>	■ 3TF31 01-0B..		
1	16	7.5	— <sup>§</sup>	■ 3TF32 00-0A..	1080.-	1	— <sup>§</sup>	■ 3TF32 00-0B..	1990.-	1
	22	11	— <sup>§</sup>	■ 3TF33 00-0A..	1435.-	1	— <sup>§</sup>	■ 3TF33 00-0B..	2605.-	1
2	32	15	— <sup>§</sup>	■ 3TF34 00-0A.. <sup>†</sup>	3240.-	1	— <sup>§</sup>	■ 3TF34 00-0B.. <sup>†</sup>	6150.-	1
	38	18.5	— <sup>§</sup>	■ 3TF35 00-0A.. <sup>†</sup>	4870.-	1	— <sup>§</sup>	■ 3TF35 00-0B.. <sup>†</sup>	7220.-	1
	40	18.5	— <sup>§</sup>	■ 3TF35 00-0A.. <sup>†</sup> 00 <sup>†</sup> ^	4940.-	1	— <sup>§</sup>	■ 3TF35 00-0B.. <sup>†</sup> 00 <sup>†</sup> ^	7285.-	1

Size	Rated current (A) Ie AC3 upto 415V	Motor kW at 415V 50Hz, 3ph	AC 50 Hz coil (LPs for 110, 230, 415V)				DC coil (LPs for 24, 110, 220, 250V)			
			Auxiliary contacts	Type Pl. fill in coil voltage code	Unit LP ₹	Std. pkg. (nos.)	Auxiliary contacts	Type Pl. fill in coil voltage code	Unit LP ₹	Std. pkg. (nos.)
3	45	22	2NO + 2NC <sup>§</sup>	■ 3TF46 02-0A.. <sup>†</sup> 01 <sup>®</sup>	6795.-	1	2NO + 2NC	3TF46 02-0D.. <sup>†</sup> 01 <sup>®</sup>	10190.-	1
	63	30	2NO + 2NC <sup>§</sup>	■ 3TF47 02-0A.. <sup>†</sup> 01 <sup>®</sup>	9550.-	1	2NO + 2NC	3TF47 02-0D.. <sup>†</sup> 01 <sup>®</sup>	11725.-	1
	65	30	2NO + 2NC <sup>§</sup>	■ 3TF47 02-0A.. <sup>†</sup> 00 <sup>^</sup>	9615.-	1	2NO + 2NC <sup>§</sup>	3TF47 02-0D.. <sup>†</sup> 00 <sup>^</sup>	11835.-	1
	70	37	2NO + 2NC <sup>§</sup>	■ 3TF47 72-0A..	10525.-	1	2NO + 2NC	3TF47 72-0D..	13395.-	1
4	75	42	2NO + 2NC <sup>§</sup>	■ 3TF48 22-0A.. <sup>†</sup> 01 <sup>®</sup>	12025.-	1	2NO + 2NC	3TF48 22-0D.. <sup>†</sup> 01 <sup>®</sup>	14315.-	1
	85	45	2NO + 2NC <sup>§</sup>	■ 3TF49 22-0A.. <sup>†</sup> 01 <sup>®</sup>	14525.-	1	2NO + 2NC	3TF49 22-0D.. <sup>†</sup> 01 <sup>®</sup>	17620.-	1
6	110	55	2NO + 2NC <sup>§</sup>	■ 3TF50 02-0A..	17405.-	1	2NO + 2NC	3TF50 02-0D..	20140.-	1
	140	75	2NO + 2NC <sup>§</sup>	■ 3TF51 02-0A..	22960.-	1	2NO + 2NC	3TF51 02-0D..	27670.-	1
8	170	90	2NO + 2NC <sup>§</sup>	■ 3TF52 02-0A..	30695.-	1	2NO + 2NC	3TF52 02-0D..	36230.-	1
	205	110	2NO + 2NC <sup>§</sup>	■ 3TF53 02-0A..	33575.-	1	2NO + 2NC	3TF53 02-0D..	40505.-	1
10	250	132	2NO + 2NC <sup>§</sup>	■ 3TF54 02-0A..	39670.-	1	2NO + 2NC	3TF54 02-0D.. <sup>1)</sup>	46070.-	1
	300	160	2NO + 2NC <sup>§</sup>	■ 3TF55 02-0A..	48020.-	1	2NO + 2NC	3TF55 02-0D.. <sup>1)</sup>	52475.-	1
12	400	200	2NO + 2NC <sup>§</sup>	■ 3TF56 02-0A..	60180.-	1	2NO + 2NC	3TF56 02-0D.. <sup>1)</sup>	64800.-	1
	475	250	2NO + 2NC <sup>§</sup>	■ 3TF57 02-0C..	80705.-	1	2NO + 2NC	3TF57 02-0D.. <sup>1)</sup>	90275.-	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) LP\* includes control contactor
- @ For box type (SIGUT) terminals, order 2 nos 3TX7 460-0E, LP\* ₹ 350.- each.

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.

- <sup>†</sup> For special execution with side mounted aux. contact blocks refer page 42.
- <sup>§</sup> For more aux. contacts, pl. see table below.
- <sup>^</sup> For B0,F0,P0 and B4 coil voltage only available

Auxiliary contact blocks

For contactor	Description	Type	Unit MRP ₹	Std. pkg. (nos.)
3TF30 to 35 & 3TH30	1NO	■ 3TX4 010-2A	150.-	10
	1NC	■ 3TX4 001-2A	150.-	10
	1NO (Extd)	■ 3TX4 010-4A	240.-	10
	1NC (Extd)	■ 3TX4 001-4A	240.-	10
3TF46 to 3TF57, 3TK5	Second 1NO+1NC Left Second 1NO+1NC Right	■ 3TY7 561-1KA00 8K	700.-	1

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

for 3TH, 3TF30 to 33	140.-	for 3TF34 to 49	215.-	for 3TF50 to 56	585.-
Wide band coil for 3TH, 3TF30 to 33	140.-	Wide band coil for 3TF34/35	215.-		

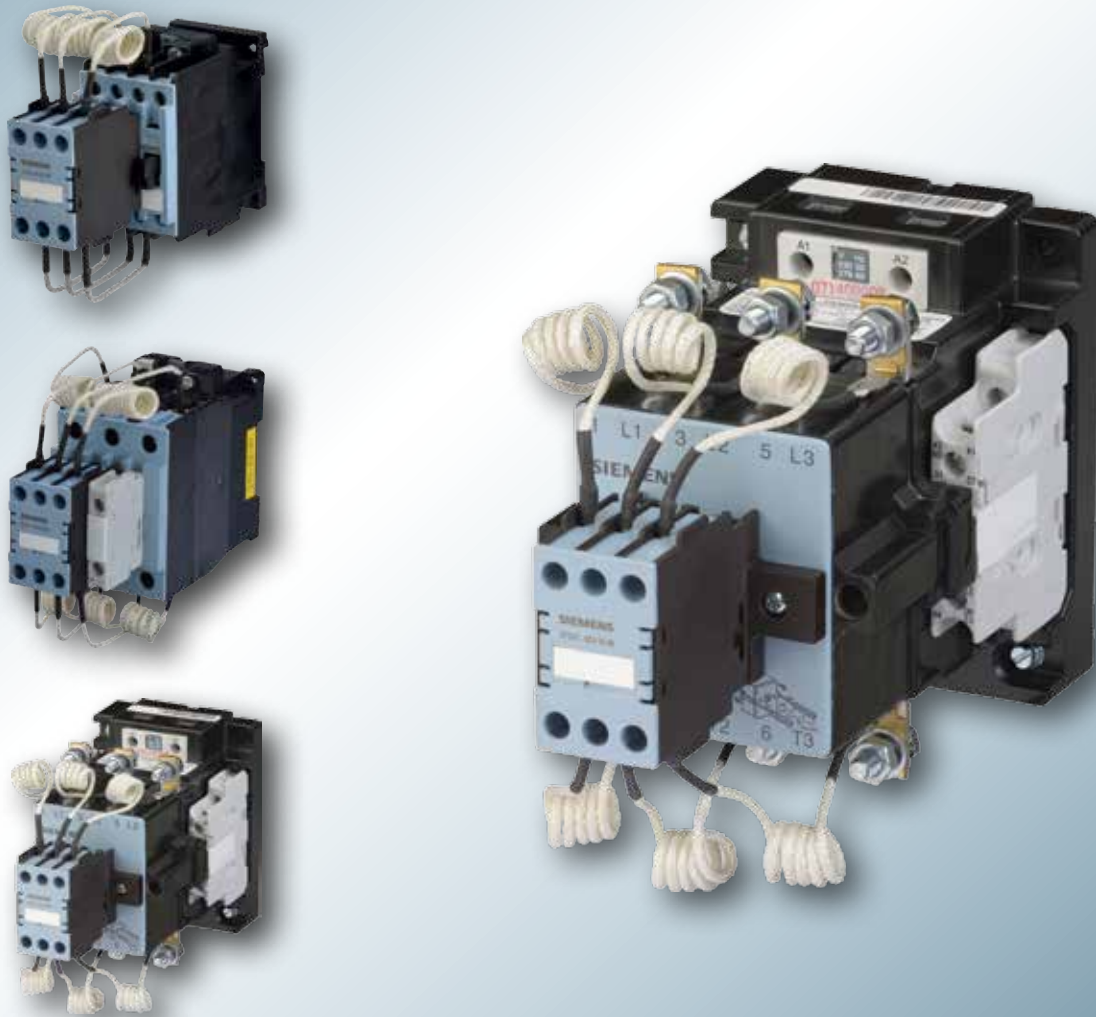
For any non-standard coil or contactor with non standard coil, minimum order quantity should be 100 nos. or minimum order value of ₹1,00,000/- per item.

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

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

MRP - Maximum Retail Price

LP - List Price



## 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 and Benefits

- De-latching operating principle
- SIGUT Termination technique
- Finger touch proof terminals
- Compact Dimensions
- DIN / Screw mounting
- 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 I <sub>e</sub> (A) AC1 at 415V	Type <sup>1)</sup>	Unit LP ₹	Std. pkg. (nos.)
6	190	3TK50 02-0A..	15080.-	1
8	315	3TK52 02-0A..	27415.-	1
10	380	3TK54 02-0A..	35650.-	1
12	500	3TK56 02-0A..	50965.-	1

## 2 Pole AC contactors - 3TF

For single phase and 2 phase applications with AC coils

Contactor size	Rated current I <sub>e</sub> (A)	Type <sup>1)</sup>	Unit LP ₹	Std. pkg. (nos.)
3	45	3TF46 02-0A..ZB01	4950.-	1
3	63	3TF47 02-0A..ZB01	7170.-	1
3	70	3TF47 72-0A..ZB01	7605.-	1
6	110	3TF50 02-0A..ZB01	11130.-	1
6	140	3TF51 02-0A..ZB01	14720.-	1
8	170	3TF52 02-0A..ZB01	19555.-	1
8	205	3TF53 02-0A..ZB01	21145.-	1
10	250	3TF54 02-0A..ZB01	24955.-	1
10	300	3TF55 02-0A..ZB01	29615.-	1
12	400	3TF56 02-0A..ZB01	36965.-	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 I <sub>e</sub> (A) AC2/AC3 at 415V	Type <sup>1)</sup>	Unit LP ₹	Std. pkg. (nos.)
6	110	3TF50 00-0A..	18290.-	1
8	170	3TF52 00-0A..	32120.-	1
10	250	3TF54 00-0A..	40930.-	1
12	400	3TF56 00-0A..	63340.-	1

## 2 Pole DC contactors - 3TC

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

Contactor size	Rated current I <sub>e</sub> (A) DC3/5	Type <sup>2)</sup>	Unit LP ₹	Std. pkg. (nos.)
2	32	3TC44 17-0B..	14085.-	1
4	75	3TC48 17-0B..	70145.-	1
8	220	3TC52 17-0B..	118080.-	1
12	400	3TC56 17-0B..	201655.-	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 kVAr 415V, 3ph, 50Hz	Built-in aux. contacts	Type <sup>5)</sup>	Unit LP ₹	Std. pkg. (nos.)
7 kVAr	1 NO	3TS1110-0A..5-8K †	1925.-	1
12.5 kVAr	–	3TS1200-0A..5-8K †	2140.-	1
16 kVAr	–	3TS1300-0A..5-8K †	2880.-	1
20 kVAr	–	3TS1400-0A..5-8K †	3245.-	1
25 kVAr	–	3TS1500-0A..5-8K †	3795.-	1
50 kVAr	2 NO + 2 NC	3TS1722-0A..5-8K	12075.-	1

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

### 75kVar Capacitor duty contactor new

Capacitor kVAr 415V, 3ph, 50Hz	Coil voltage	Built-in aux. contacts	Type	Unit LP	Std. pkg. (nos.)
75 kVAr	24V, 50HZ	1NO + 1NC	3RT2637-1AB03	18000.-	1
75 kVAr	110V, 50HZ		3RT2637-1AF03		
75 kVAr	230V, 50HZ		3RT2637-1AP03		

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

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



Hoisting and vacuum contactors from Siemens

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

Contactor size	Rated current I <sub>e</sub> (A) DC3/5	Type <sup>3)</sup>	Unit LP ₹	Std. pkg. (nos.)
2	32	3TC44 17-0A..	19445.-	1
4	75	3TC48 17-0A..	84485.-	1
8	220	3TC52 17-0A..	145160.-	1
12	400	3TC56 17-0A..	267965.-	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 LP ₹	Std. pkg. (kits)
20	3RF21 20-1AA45 <sup>\$</sup>	1700.-	1
30	3RF21 30-1AA45 <sup>\$</sup>	2640.-	1
50	3RF21 50-1AA45 <sup>\$</sup>	4385.-	1
70	3RF21 70-1AA45 <sup>\$</sup>	5090.-	1
90	3RF21 90-1AA45 <sup>\$</sup>	6295.-	1

<sup>\$</sup> 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 / SICON<sup>Plus</sup>

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

Contactor type	Type	Unit LP ₹	Std. pkg. (kits)
3TF30-35	■ 3TX4 091-1A <sup>#</sup>	480.-	10
3TF46/47/47-7	■ 3TX7 466-1YA0	1700.-	2
3TF48/49	■ 3TX7 486-1YA0	2755.-	2
3TF50/51	■ 3TX7 506-1YA0	3110.-	2
3TF52/53	■ 3TX7 526-1YA0	3560.-	2
3TF54/55	■ 3TX7 546-1YA0	4280.-	2
3TF56/57	■ 3TX7 566-1YA0	4570.-	2
3TF50/52	3TX7 526-1YA09	3560.-	2
3TF52/54	■ 3TX7 546-1YA09	4280.-	2

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

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

Adaptor plates, to replace	Type	Unit LP ₹	Std. pkg. (nos.)
3TA61-0A by 3TH30-0A	3TX64 06-0A	90.-	5
3TA67/21 by 3TH30, 3TF30/31 3TA21/11 by 3TF32/33	3TX21 43-1YA0	90.-	5
3TA22/13 by 3TF32-35	3TX22 42-1YA0	140.-	5
3TA24 by 3TF46/47/477	3TX24 46-1YA0	210.-	5
3TA24/16 by 3TF48/49	3TX16 48-1YA0	210.-	5
3TA16 by 3TF50/51	3TX16 50-1YA0	500.-	5
3TA28 by 3TF50/51	3TX28 50-1YA0	500.-	5
3TA28 by 3TF52/53	3TX28 52-1YA0	590.-	5

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

Coil voltage		Type	Unit LP ₹	Std. pkg. (nos.)
AC	DC			
24 - 48 V	24 - 70 V	■ 3TX7 402-3GY1	435.-	10
48 - 127V	70 - 150V	■ 3TX7 402-3HY1	435.-	10
127 - 240V	150 - 250V	■ 3TX7 402-3JY1	435.-	10
240 - 400V	—	3TX7 402-3KY1	555.-	10
400 - 600V	—	3TX7 402-3LY1	555.-	10

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

Less than 48V	24 - 70V	■ 3TX7 462-3GY1	595.-	10
48 - 127V	70 - 150V	■ 3TX7 462-3HY1		10
127 - 240V	150 - 250V	■ 3TX7 462-3JY1		10
240 - 400V	—	3TX7 462-3KY1	630.-	10
400 - 600V	—	3TX7 462-3LY1	630.-	10

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

24 - 48 V	24 - 70 V	3TX7 402-3RY2	690.-	10
48 - 127V	70 - 150V	3TX7 402-3SY2		10
127 - 240V	150 - 250V	3TX7 402-3TY2		10
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



### Range:

MPCB		Contactor		MLFB of Connector	Unit LP ₹	Std. pkg. (nos.)
MLFB	Current Rating	MLFB	AC3 Current Rating			
3VU13	0.16 to 20A	3TF30 / 31	9 / 12 A	3TS9001-8K	255.-	1
3VU13	6 to 25A	3TF32 / 33	16 / 22A	3TS9002-8K	300.-	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 SICON<sup>Plus</sup> contactors

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

For Contactor (AC3 Rating)	Type	LP per set ₹	Std. pkg. (nos.)
3TF32/42 (16A)	■ 3TY7 420-0A	665.-	1
3TF33/43 (22A)	■ 3TY7 430-0A	935.-	1
3TF34 (32A)	■ 3TY7 340-0C	1785.-	1
3TF35 (38A)	■ 3TY7 350-0C	2725.-	1
3TF44 (32A)	■ 3TY7 440-0A	1970.-	1
3TF45 (38A)	■ 3TY7 450-0A	2725.-	1
3TF46 (45A)	■ 3TY7 460-0YA	2915.-	1
3TF47 (63A)	■ 3TY7 470-0YA	4255.-	1
3TF477 (70A)	■ 3TY7 477-0YA	4930.-	1
3TF48 (75A)	■ 3TY7 480-0A	5670.-	1
3TF49 (85A)	■ 3TY7 490-0A	7605.-	1
3TF50 (110A)	■ 3TY7 500-0YA	8285.-	1
3TF51 (140A)	■ 3TY7 510-0YA	10425.-	1
3TF52 (170A)	■ 3TY7 520-0YA	13100.-	1
3TF53 (205A)	■ 3TY7 530-0YA	13985.-	1
3TF54 (250A)	■ 3TY7 540-0YA	16815.-	1
3TF55 (300A)	■ 3TY7 550-0YA	19770.-	1
3TF56 (400A)	■ 3TY7 560-0YA	26160.-	1
3TF57 (475A)	3TY7 570-0YA	34860.-	1
3TF68 (630A)	3TY7 680-0B <sup>\$</sup>	173415.-	1
3TF69 (820A)	3TY7 690-0B <sup>\$</sup>	278625.-	1

\$ Set of 3x vacuum bottles.

### Auxiliary contact blocks

For contactor	Description	Type	Unit LP ₹	Std.pkg. (nos.)
3TF46-57	1NO + 1NC (Extd) Right	3TY7 561-1E	900.-	1
3TF46 to 3TF57, 3TK5	Built-in, 1NO+1NC Left / Right Add-on, Second 1NO+1NC Left / Right	3TY7 561-1AA00-8K	700.-	1
		3TY7 561-1KA00-8K	700.-	1
3TF46/47/47 7	Special block, DC coil circuit	3TY7 461-1F	920.-	1
3TF48-56	Special block, DC coil circuit	3TY7 481-1F	920.-	1
3TF57	Special block, DC coil circuit	3TY7 681-1G	1045.-	1

### DC coils

For contactor	Type†	Unit LP ₹		Std. pkg. (nos.)
		For 24/110/220/250V	For all other coil voltages	
3TH3, 3TF30-33/42/43	■ 3TY4 803-0B..	815.-	960.-	1
3TF34/35/44/45	3TY7 443-0B..	1225.-	1440.-	1
3TF46/47/477	3TY7 463-0D..	3755.-	3965.-	1
3TF48/49	3TY7 483-0D..	6430.-	6650.-	1
3TF50/51	3TY7 503-0D..	10050.-	10625.-	1
3TF52/53	3TY7 523-0D..	15615.-	NA	1

■ Stock items

### SICOP arc chambers

For Contactor	Type	Unit LP ₹	Std. pkg. (nos.)
3TF34	3TY7 342-0C	480.-	1
3TF35	3TY7 352-0C	515.-	1
3TF46	3TY7 462-0YA	1000.-	1
3TF47	3TY7 472-0YA	1225.-	1
3TF477	3TY7 477-0YD	1470.-	1
3TF48	3TY7 482-0A	1770.-	1
3TF49	3TY7 492-0A	2040.-	1
3TF50	3TY7 502-0YA	2430.-	1
3TF51	3TY7 512-0YA	2760.-	1
3TF52	3TY7 522-0YA	3035.-	1
3TF53	3TY7 532-0YA	3125.-	1
3TF54	3TY7 542-0YA	3370.-	1
3TF55	3TY7 552-0YA	3465.-	1
3TF56	3TY7 562-0YA	3910.-	1
3TF57	3TY7 572-0YA	4015.-	1

### AC coils (50 Hz)

For contactor	Type†	Unit LP ₹		Std. pkg. (nos.)
		For 110/230/415V 50Hz	For all other coil voltages	
3TH3, 3TF30-33/42/43	■ 3TY7 403-0A..	595.-	595.-	1
3TF34/35/44/45	■ 3TY7 443-0A..	735.-	950.-	1
3TF46/47/477	■ 3TY7 463-0A..	1275.-	1490.-	1
3TF48/49	■ 3TY7 483-0A..	2335.-	2550.-	1
3TF50/51, 3TK50	■ 3TY7 503-0A..	2375.-	2955.-	1
3TF52/53, 3TK52	■ 3TY7 523-0A..	3005.-	3585.-	1
3TF54/55, 3TK54	■ 3TY7 543-0A..	3640.-	4220.-	1
3TF56, 3TK56	■ 3TY7 563-0A..	5290.-	6445.-	1
3TF57	3TY7 573-0C..	15880.-	NA	1
3TF68	3TY7 683-0C..	39155.-	NA	1
3TF69	3TY7 693-0C..	74405.-	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

† 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 LP ₹	Std. pkg. (nos.)
3TK50 02-0A..	3TY7 500-0KA	7595.-	1
3TK52 02-0A..	3TY7 520-0KA	12255.-	1
3TK54 02-0A..	3TY7 540-0KA	15470.-	1
3TK56 02-0A..	3TY7 560-0KA	23810.-	1

## Spares for hoisting duty contactors

### Spare coils

Spare coils for	Type <sup>1)</sup>	Unit LP ₹	Std. pkg. (nos.)
3TF50 00 0A..	3TY7 503-0A ..0-0H	3370.-	1
3TF52 00 0A..	3TY7 523-0A ..0-0H	4020.-	1
3TF54 00 0A..	3TY7 543-0A ..0-0H	4890.-	1
3TF56 00 0A..	3TY7 563-0A ..0-0H	6470.-	1

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

### Spare contact kits

	Type	Unit LP ₹	Std. pkg. (nos.)
3TF50 00 0A..	3TY7 500-0ZA	10955.-	1
3TF52 00 0A..	3TY7 520-0ZA	14025.-	1
3TF54 00 0A..	3TY7 540-0ZA	19445.-	1
3TF56 00 0A..	3TY7 560-0ZA	32925.-	1

## Spares for 3TC contactors

Description	Version	Type	Unit LP ₹	Std. pkg. (nos.)
Set of main contacts	for 3TC44	3TY2 440-0A	5570.-	1
	for 3TC48	3TY2 480-0A	13650.-	1
	for 3TC52	3TY2 520-0A	38725.-	1
	for 3TC56	3TY2 560-0A	76785.-	1
AC coils <sup>1)</sup> (50 Hz)	for 3TC44	3TY7 403-0A..	595.-	1
	for 3TC48	3TY6 483-0A..	7430.-	1
	for 3TC52	3TY6 523-0A..	10010.-	1
	for 3TC56	3TY6 563-0A..	15090.-	1
DC coils <sup>2)</sup>	for 3TC44	3TY6 443-0B..	10255.-	1
	for 3TC48	3TY6 483-0B..	17490.-	1
	for 3TC52	3TY6 523-0B..	43245.-	1
	for 3TC56	3TY6 563-0B..	60055.-	1
Arc chambers	for 3TC44	3TY2 442-0A	5460.-	1
	for 3TC48	3TY2 482-0A	9915.-	1
	for 3TC52	3TY2 522-0A	15430.-	1
	for 3TC56	3TY2 562-0A	31190.-	1
Auxiliary contacts 1st 1NO + 1NC Left/Right 2nd 1NO + 1NC Left 2nd 1NO + 1NC Right	for 3TC44/48	3TY6 501-1AA00	2530.-	1
	for 3TC48	3TY6 501-1K	2530.-	1
	for 3TC48	3TY6 501-1L	2530.-	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>\$</sup>

<sup>\$</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

LP - List Price

## Spares for capacitor duty contactors - 3TS

### Spare coils

Contactor kVAr	Description	Type*	Unit LP ₹	Std. pkg. (nos.)
7 kVAr	AC 50Hz coil	3TY74030A..	595.-	1
12.5 kVAr				
16 kVAr				
20 kVAr		3TY74430A..	735.-	1
25 kVAr				
50 kVAr		3TY74630A..	1275.-	1

\* For coil, refer below table

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

### Pre-charge resistor + Contact block kit

Contactor kVAr	Description	Type	Unit LP ₹	Std. pkg. (nos.)
12.5 kVAr	Pre-charge resistor + early making contact block kit + main contacts kit	3TS9762-0SX15-8K	1460.-	1
16 kVAr		3TS9763-0SX15-8K	2175.-	1
20 kVAr		3TS9764-0SX15-8K	2450.-	1
25 kVAr		3TS9765-0SX15-8K	2880.-	1
50 kVAr		3TS9767-0SX15-8K	7415.-	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	LP 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	1125.-	1
	3TA21	16 A	3TY1 210-0A	1255.-	1
	3TA11	22 A	3TY1 110-0A	1690.-	1
6 fixed contacts 3 moving contacts 3 flat springs 6 screws 6 washers	3TA22	30 A	3TY1 220-0A	2450.-	1
	3TA13	38 A	3TY1 130-0A	3265.-	1
	3TA24	70 A	3TY1 240-0A	6520.-	1
	3TA16	105 A	3TY1 160-0A	10810.-	1

### Coils for 3TA contactors

Coil description	For contactor	Type†	Unit LP ₹	Std. pkg. (nos.)
AC coils, 50Hz	3TA67/76/21/11	3TY1 213-0.	660.-	1
	3TA22/13	3TY1 223-0.	985.-	1
	3TA24/16	3TY1 243-0.	2010.-	1
	3TA28/28-Z	3TY1 283-0.	3800.-	1

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

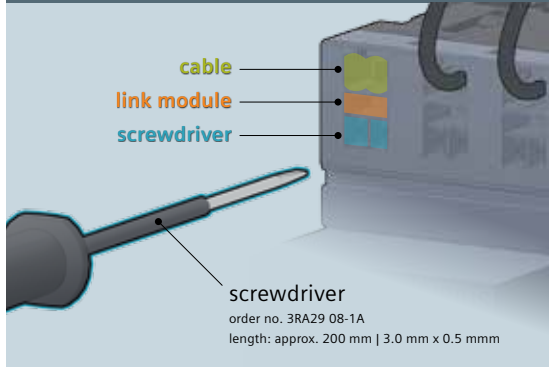
Code	B	F	M	U	W
Coil voltage, V (50Hz)	24	110	220	240	415

### ■ Stock items

Please order in multiples of standard packing.

# SIEMENS

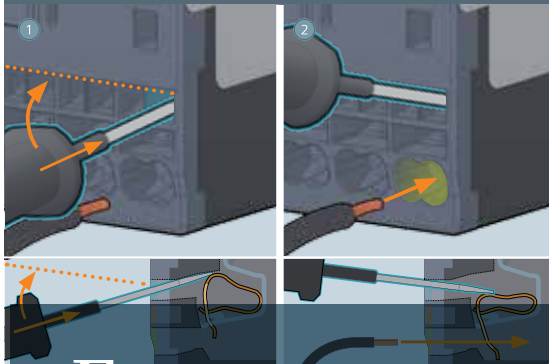
## Spring-type terminals



## 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 LP ₹	Std. pkg. (nos.)
S00	0.04	0.11 ... 0.16	3RU21 16-0AB0	1495.-	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
S0	7.5	11 ... 16	3RU21 16-4AB0	1690.-	1
	0.75	1.8 ... 2.5	■ 3RU21 26-1CB0		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	1705.-	1
	5.5	9 ... 12.5	■ 3RU21 26-1KB0	1705.-	1
	7.5	11 ... 16	■ 3RU21 26-4AB0	1795.-	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		1
	18.5	30 ... 36	3RU21 26-4PB0		1
	18.5	34 ... 40	3RU21 26-4FB0		1
	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		1
	22	40 ... 50	■ 3RU11 36-4HB0		1
S2	11	18 ... 25	3RU11 46-4DB0		1
	15	22 ... 32	3RU11 46-4EB0		1
	18.5	28 ... 40	■ 3RU11 46-4FB0		1
	22	36 ... 45	■ 3RU11 46-4GB0		1
	22	40 ... 50	■ 3RU11 46-4HB0		1
	30	45 ... 63	■ 3RU11 46-4JB0		1
	37	57 ... 75	■ 3RU11 46-4KB0		1
	45	70 ... 90	■ 3RU11 46-4LB0		1
	45	80 ... 100	3RU11 46-4MB0		1
				5570.-	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 LP ₹	Std. pkg. (nos.)
S00	3RU2	■ 3RU2916-3AA01*	270.-	1
S0	3RU2	■ 3RU2926-3AA01*	320.-	1
S2	3RU1	■ 3RU19 36-3AA01	430.-	1
S3	3RU1	■ 3RU19 46-3AA01	555.-	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 LP ₹	Std. pkg. (nos.)
S6	45	70 - 100	3RU21 56-5BB10-8K	6675.-	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>	6460.-	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	9955.-	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	12915.-	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 LP ₹	Std. pkg. (nos.)
S6	37	55 - 80	3RU23 56-5AB10-8K	12915.-	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	12915.-	1
	110	140 - 200	3RU23 66-5EB10-8K		1
S12	132	180 - 250	3RU23 76-5FB10-8K	12915.-	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

Size	Current setting range A	3RB (Class 10)		3RB (Class 20)		3RB (Class 5 to 30 – Settable)		Std. pkg (nos.)
		With overload, phase failure and phase unbalance protections		With overload, phase failure and phase unbalance protections		With Overload, phase failure, phase unbalance, and earth fault protections		
		Type*	Unit LP ₹	Type*	Unit LP ₹	Type*	Unit LP ₹	
S00	0.1 ... 0.4	3RB30 16-1RB0	3460.-	3RB30 16-2RB0	4330.-	3RB31 13-4RB0	7105.-	1
	0.32 ... 1.25	3RB30 16-1NB0		3RB30 16-2NB0		3RB31 13-4NB0		1
	1 ... 4	3RB30 16-1PB0		3RB30 16-2PB0		3RB31 13-4PB0		1
	3 ... 12	3RB30 16-1SB0		3RB30 16-2SB0		3RB31 13-4SB0		1
	4 ... 16	3RB30 16-1TB0		3RB30 16-2TB0		3RB31 13-4TB0		1
S0	0.1 ... 0.4	3RB30 26-1RB0	3960.-	3RB30 26-2RB0	4940.-	3RB31 23-4RB0	7430.-	1
	0.32 ... 1.25	3RB30 26-1NB0		3RB30 26-2NB0		3RB31 23-4NB0		1
	1 ... 4	3RB30 26-1PB0		3RB30 26-2PB0		3RB31 23-4PB0		1
	3 ... 12	3RB30 26-1SB0		3RB30 26-2SB0		3RB31 23-4SB0		1
	6 ... 25	3RB30 26-1QB0		3RB30 26-2QB0		3RB31 23-4QB0		1
	10 ... 40	3RB30 26-1VB0		4110.-		3RB30 26-2VB0		3RB31 23-4VB0
S2	6 to 25A	3RB20 36-1QW1 <sup>#</sup>	4325.-	3RB20 36-2QW1 <sup>#</sup>	5395.-	3RB21 33-4QW1 <sup>#</sup>	8525.-	1
S2	6 to 25A	3RB20 36-1QB0	4325.-	3RB20 36-2QB0	5395.-	3RB21 33-4QB0	8445.-	
S2	12.5 to 50A	3RB20 36-1UB0	6065.-	3RB20 36-2UW1 <sup>#</sup>	7565.-	3RB21 33-4UB0	9715.-	
S2	13 to 50A	3RB20 36-1UW1 <sup>#</sup>	6065.-	3RB20 36-2UB0	7565.-	3RB21 33-4UW1 <sup>#</sup>	10300.-	
S3	25 to 100A	3RB20 46-1EW1 <sup>#</sup>	9325.-	3RB20 46-2EW1 <sup>#</sup>	11660.-	3RB21 43-4EW1 <sup>#</sup>	13035.-	
S3	12.5 to 50A	3RB20 46-1UB0	7185.-	3RB20 46-2UB0	8990.-	3RB21 43-4UB0	12915.-	
S3	25 to 100A	3RB20 46-1EB0	8880.-	3RB20 46-2EB0	11660.-	3RB21 43-4EB0	12915.-	
S6	50 to 200A	3RB20 56-1FW2 <sup>#</sup>	11930.-	3RB20 56-2FW2 <sup>#</sup>	14920.-	3RB21 53-4FC2	17855.-	
S6	50 to 200A	3RB20 56-1FC2		3RB20 56-2FC2		3RB21 53-4FW2 <sup>#</sup>		
S10/12	55 to 250	3RB20 66-1GC2	13020.-	3RB20 66-2GC2	18125.-	3RB21 63-4GC2	18215.-	
S10/12	160 to 630A	3RB20 66-1MC2	23170.-	3RB20 66-2MC2	28960.-	3RB21 63-4MC2	30005.-	

### Accessory for independent mounting

For relay size	Relay type	Type	Unit LP ₹	Std. pkg. (nos.)
S00	3RB30/31	3RU29 16-3AA01 <sup>@</sup>	270.-	1
S0	3RB30/31	3RU29 26-3AA01 <sup>@</sup>	320.-	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

0.3 – 3 A  
2.4 – 25 A

10 – 100 A

20 – 200 A

63 – 630 A

+

+

- 0.1 mtr.  
- 0.5 mtr.

**Current Measuring Module**

**Connecting Cable**

**Evaluation Module**

**Functional Module (Optional)**

- Overload Protection
- Trip Class 5 to 30 settable
- Thermistor motor protection
- Phase failure protection
- Phase unbalance protection
- Large setting range (1:10)
- Overload warning
- LED indication

- Analog Output (4-20mA)

- Internal earth fault protection

- Ground fault signaling

- Overload warning

### Evaluation modules

(Suitable with all current measuring modules)

Description	Type	Unit LP ₹	Std. pkg. (nos.)
3RB22 with monostable output	3RB22 83-4AA1	14020.-	1
3RB23 with bistable output	3RB23 83-4AA1	20190.-	1

### Connecting cable

(For connection between evaluation module and current measuring module)

Description	Type	Unit LP ₹	Std. pkg. (nos.)
Length 0.1 m (S00...S3)	3RB29 87-2B	745.-	1
Length 0.5 m (S00...S12)	3RB29 87-2D	1035.-	1

### Current measuring modules

Size	Current range	Type	Unit LP ₹	Std. pkg. (nos.)
S00/S0	0.3 to 3A 2.4 to 25A	3RB29 06-2BG1 3RB29 06-2DG1	8275.- 9260.-	1 1
S2/S3	10 to 100A	3RB29 06-2JG1	10215.-	1
S6	20 to 200A	3RB29 56-2TG2	22710.-	1
S10/12	63 to 630A	3RB29 66-2WH2	25665.-	1

### Function modules (optional)

Description	Type	Unit LP ₹	Std. pkg. (nos.)
Overload warning + Analog output	3RB29 852AA0	5165.-	1
Internal earth fault protection + Overload warning + Analog output	3RB29 85-2AA1	8275.-	1
Internal earth fault (protection + signalling) + Analog output	3RB29 85-2AB1		
Internal earth fault protection + Overload warning	3RB29 85-2CA1	1580.-	1
Internal earth fault (protection + signalling)	3RB29 85-2CB1		

## Accessories for 3RB20 and 3RB21

Description	For size	Type	Unit LP ₹	Std. pkg. (nos.)
Resetting plunger with funnel	S0 - S12	3RU19 00-1A	570.-	1
Reset cord with holder - 400mm 600mm	S0 - S12	3RU19 00-1B 3RU19 00-1C	1625.-	1

Contact nearest Siemens partner for more details

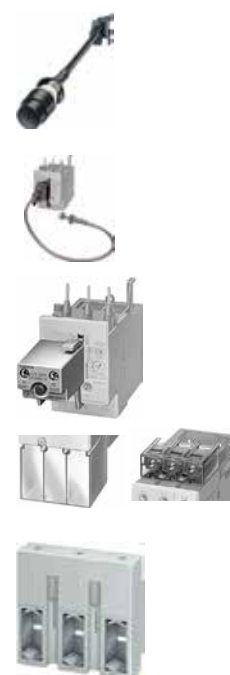
## Accessories for 3RU2 Thermal overload relays and 3RB3 solid state overload relays

Accessory Type	Version	Size	3RU2 Thermal overload relay	3RB30/31 solid state overload relay	Type	Unit LP ₹	Std. pkg. (nos.)
Mechanical Reset	Resetting plungers, holders & formers	S00, S0, S6-S12	✓	X	3RU29 00-1A	570.-	1
	Push button with extended stroke		✓	✓	3SB30 00-0EA11	1710.-	1
	Extension plungers		✓	✓	3SX1 335	330.-	1
	Resetting plungers, holders & formers		x	✓	3RB39 80-0A	285.-	1
Cable releases with holder for RESET	Length 400mm	S00, S0, S6-S12	✓	x	3RU29 00-1B	1625.-	1
	Length 600mm		✓	x	3RU29 00-1C		1
	Length 400mm		x	✓	3RB39 80-0B	2750.-	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	2030.-	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	1310.-	1
Covers for busbar connections	Length 100mm	S6	✓	–	3RT19 56-4EA1	1165.-	1
	Length 120mm	S10, S12	✓	–	3RT19 66-4EA1	1500.-	1



## Accessories for 3RU1 Thermal overload relays

Accessory Type	Version	Size for 3RU	Type	Unit LP ₹	Std. pkg. (nos.)
Mechanical Reset	Resetting plungers, holders & formers	S00-S3	3RU19 00-1A	570.-	1
	Pushbuttons with extended stroke		3SB30 00-0EA11	1710.-	1
	Extension plungers		3SX1 335	330.-	1
Cable releases with holder for RESET	Length 400mm	S00-S3	3RU19 00-1B	1625.-	1
	Length 600mm		3RU19 00-1C		
Module for remote RESET, electrical	24-30V AC/DC	S00-S3	3RU19 00-2AB71	2030.-	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	605.-	1
	For box terminals				
	Length 20.6mm	S2	3RT19 36-4EA2	430.-	1
	Length 20.8mm	S3	3RT19 46-4EA2	430.-	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	1505.-	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	1525.-	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	1745.-	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	1525.-	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	1690.-	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	2680.-	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	2750.-	1
		32 – 40	■ 3UA55 00-2R		1
		36 – 45	■ 3UA55 00-8M		1
Bimetal relay	Current type of mounting	Current setting range A	Type	Unit LP ₹	Std. pkg. (nos.)
3UA58-Z1	Contactor® mounting (3TF46, 3TF47, 3TF48, 3TF49)	16 – 25	3UA58 00-2CZ1	4770.-	1
		20 – 32	3UA58 00-2DZ1		1
		25 – 40	3UA58 00-2EZ1		1
		32 – 50	■ 3UA58 00-2FZ1	4070.-	1
		40 – 57	■ 3UA58 00-2TZ1		1
3UA58-Z2	Contactor® mounting (3TF47 7)	16 – 25	3UA58 00-2CZ2	4770.-	1
		20 – 32	3UA58 00-2DZ2		1
		25 – 40	3UA58 00-2EZ2		1
		32 – 50	■ 3UA58 00-2FZ2	4070.-	1
		40 – 57	■ 3UA58 00-2TZ2		1
3UA58 30	Contactor® mounting (3TF50)	16 – 25	■ 3UA58 00-2PZ1	4770.-	1
		20 – 32	■ 3UA58 00-2VZ1		1
		25 – 40	■ 3UA58 00-2UZ1		1
		32 – 50	■ 3UA58 00-2PZ2	4770.-	1
		40 – 57	■ 3UA58 00-2VZ2		1
		50 – 63	■ 3UA58 00-2UZ2		1
3UA62	Independent mounting	70 – 95	■ 3UA58 30-5B	5285.-	1
		85 – 105	■ 3UA58 30-5C		1
		95 – 120	■ 3UA58 30-5D		1
		85 – 135	■ 3UA62 30-5A	7285.-	1
		115 – 180	■ 3UA62 30-5B		1
3UA68	Independent mounting	160 – 250	■ 3UA62 30-5C	10805.-	1
		200 – 320	■ 3UA62 30-5D		1
		250 – 400	■ 3UA62 30-5E		1
		320 – 500	3UA68 30-5F	13970.-	1
		400 – 630	3UA68 30-5G		1

@ Can be converted to independent mounting using accessory.

### Relays for heavy starting applications, independent mounting

Current setting range A	Type	Unit LP ₹	Current setting range A	Type	Unit LP ₹	Std. pkg. (nos.)
2.5 – 4	3UC50 30-5E	13650.-	40 – 63	3UC58 30-5G	13650.-	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 LP ₹	Std. pkg. (nos.)
Accessory for independent mounting	3UA50 3UA52 3UA55 3UA58 3UA58 30	■ 3UX14 18 ■ 3UX14 20 ■ 3UX14 25 ■ 3UX14 21 ■ 3UX14 21-0XA	240.- 290.- 335.- 400.- 500.-	1 1 1 1 1
Resetting plunger funnel	3UA5/6, 3UC5/6	3UX10 11 3UX10 13	160.-	10 10
Reset cord + holder: 400 mm length 600 mm length	3UA5/6, 3UC5/6	3UX10 15 3UX10 16	215.-	5 5
Protection cover	3UA58/3UA58 30 Other 3UA5/6	3UX11 10 1YA 3UX11 11 1YA	165.-	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	130.-	10 10 10



Tried & tested  
relays for  
overload  
conditions

■ Stock items

Please order in multiples of standard packing.

## Motor Protection Circuit Breakers - 3RV



### Class 10 , Without Auxiliary Switch, Standard Switching capacity, Screw Terminals

MPCB Specifications			MPCB with Standard release <sup>1)</sup>		MPCB with "relay function" <sup>3)</sup>		MPCB with "Mag only" Release <sup>2)</sup>		MPCB for transformer protection	
MPCB Size	MPCB rated current A	MPCB overload range A	Type*	Unit LP ₹	Type*	Unit LP ₹	Type*	Unit LP ₹	Type*	Unit LP ₹
S00	0.16	0.11...0.16	3RV2011-0AA10	3395.-	3RV2111-0AA10	4295.-	3RV2311-0AC10	3265.-	3RV2411-0AA10	5670.-
	0.2	0.14...0.2	3RV2011-0BA10		3RV2111-0BA10		3RV2311-0BC10		3RV2411-0BA10	
	0.25	0.18...0.25	3RV2011-0CA10		3RV2111-0CA10		3RV2311-0CC10		3RV2411-0CA10	
	0.32	0.22...0.32	3RV2011-0DA10		3RV2111-0DA10		3RV2311-0DC10		3RV2411-0DA10	
	0.4	0.28...0.4	3RV2011-0EA10		3RV2111-0EA10		3RV2311-0EC10		3RV2411-0EA10	
	0.5	0.35...0.5	3RV2011-0FA10		3RV2111-0FA10		3RV2311-0FC10		3RV2411-0FA10	
	0.63	0.45...0.63	3RV2011-0GA10	3925.-	3RV2111-0GA10	4955.-	3RV2311-0GC10	3760.-	3RV2411-0GA10	6005.-
	0.8	0.55...0.8	3RV2011-0HA10		3RV2111-0HA10		3RV2311-0HC10		3RV2411-0HA10	
	1	0.7...1	3RV2011-0JA10		3RV2111-0JA10		3RV2311-0JC10		3RV2411-0JA10	
	1.25	0.9...1.25	3RV2011-0KA10		3RV2111-0KA10		3RV2311-0KC10		3RV2411-0KA10	
	1.6	1.1...1.6	3RV2011-1AA10		3RV2111-1AA10		3RV2311-1AC10		3RV2411-1AA10	
	2	1.4...2	3RV2011-1BA10		3RV2111-1BA10		3RV2311-1BC10		3RV2411-1BA10	
	2.5	1.8...2.5	3RV2011-1CA10		3RV2111-1CA10		3RV2311-1CC10		3RV2411-1CA10	
	3.2	2.2...3.2	3RV2011-1DA10	4075.-	3RV2111-1DA10	5145.-	3RV2311-1DC10	3905.-	3RV2411-1DA10	
	4	2.8...4	3RV2011-1EA10		3RV2111-1EA10		3RV2311-1EC10		3RV2411-1EA10	
	5	3.5...5	3RV2011-1FA10		3RV2111-1FA10		3RV2311-1FC10		3RV2411-1FA10	
	6.3	4.5...6.3	3RV2011-1GA10		3RV2111-1GA10		3RV2311-1GC10		3RV2411-1GA10	
	8	5.5...8	3RV2011-1HA10		3RV2111-1HA10		3RV2311-1HC10	4185.-	3RV2411-1HA10	
	10	7...10	3RV2011-1JA10		3RV2111-1JA10		3RV2311-1JC10		3RV2411-1JA10	
S0	12.5	9...12.5	3RV2011-1KA10	4660.-	3RV2111-1KA10	5890.-	3RV2311-1KC10	4480.-	3RV2411-1KA10	6635.-
	16	10...16	3RV2011-4AA10	5435.-	3RV2111-4AA10	6625.-	3RV2311-4AC10	5045.-	3RV2411-4AA10	6745.-
	16	10 ... 16	3RV2021-4AA10	5530.-	3RV2121-4AA10	6745.-	3RV2321-4AC10	5140.-	3RV2421-4AA10	7090.-
	20	13 ... 20	3RV2021-4BA10	6065.-	3RV2121-4BA10	7530.-	3RV2321-4BC10	5910.-	3RV2421-4BA10	11780.-
	22	16 ... 22	3RV2021-4CA10		3RV2121-4CA10		3RV2321-4CC10		3RV2421-4CA10	
	25	18 ... 25	3RV2021-4DA10		3RV2121-4DA10		3RV2321-4DC10		3RV2421-4DA10	
	28	23 ... 28	3RV2021-4NA10	10220.-	3RV2121-4NA10	16920.-	3RV2321-4NC10	9840.-	-	-
	32	27 ... 32	3RV2021-4EA10		3RV2121-4EA10		3RV2321-4EC10		-	-
S2	36	30 ... 36	3RV2021-4PA10	11685.-	-	-	3RV2321-4PC10	11360.-	-	-
	40	34 ... 40	3RV2021-4FA10		-	-	3RV2321-4FC10		-	-
	16	11...16	3RV1031-4AA10	10230.-	3RV1131-4AA10	17415.-	3RV13 31-4AC10	14485.-	3RV1431-4AA10	11875.-
	20	14...20	3RV1031-4BA10	10990.-	3RV1131-4BA10		3RV13 31-4BC10		3RV1431-4BA10	12665.-
	25	18 ... 25	3RV1031-4DA10		3RV11 31-4DA10		3RV13 31-4DC10	10135.-	3RV1431-4DA10	13555.-
	32	22 ... 32	3RV1031-4EA10		3RV11 31-4EA10		3RV13 31-4EC10		3RV1431-4EA10	16330.-
	40	28 ... 40	3RV1031-4FA10	12100.-	3RV11 31-4FA10	19185.-	3RV13 31-4FC10	11275.-	3RV1431-4FA10	18025.-
	45	36 ... 45	3RV1031-4GA10	14785.-	3RV11 31-4GA10	20150.-	3RV13 31-4GC10	13965.-	-	-
S3	50	40 ... 50	3RV1031-4HA10		3RV11 31-4HA10		3RV13 31-4HC10		-	-
	40	28 ... 40	3RV1041-4FA10	17545.-	3RV1142-4FA10	20070.-	3RV13 41-4FC10	14370.-	-	-
	50	36 ... 50	3RV1041-4HA10	15560.-	3RV1142-4HA10	21200.-	3RV13 41-4HC10		-	-
	63	45 ... 63	3RV1041-4JA10		3RV1142-4JA10		3RV13 41-4JC10		-	-
	75	57 ... 75	3RV1041-4KA10	16340.-	3RV1142-4KA10	22260.-	3RV13 41-4KC10	15095.-	-	-
	90	70 ... 90	3RV1041-4LA10		3RV1142-4LA10		3RV13 41-4LC10		-	-
	100	80 ... 100	3RV1041-4MA10		3RV1142-4MA10		3RV13 41-4MC10		-	-

### Class 10, Without Auxiliary Switch, Increased Switching capacity(100kA), Screw Terminals

MPCB Specifications			MPCB with Standard release <sup>1)</sup>		MPCB with "relay function" <sup>3)</sup>		MPCB with "Mag only" Release <sup>2)</sup>	
MPCB Size	MPCB rated current A	MPCB overload range A	Type*	Unit LP ₹	Type*	Unit LP ₹	Type*	Unit LP ₹
S3	16	11 ... 16	3RV10 42-4AA10	15440.-	3RV11 42-4AA10	20070.-	3RV13 42-4AC10	18520.-
S3	20	14 ... 20	3RV10 42-4BA10		3RV11 42-4BA10		3RV13 42-4BC10	
S3	25	18 ... 25	3RV10 42-4DA10		3RV11 42-4DA10		3RV13 42-4DC10	
S3	32	22 ... 32	3RV10 42-4EA10		3RV11 42-4EA10		3RV13 42-4EC10	
S3	40	28 ... 40	3RV10 42-4FA10	16210.-	3RV11 42-4FA10	21200.-	3RV13 42-4FC10	19655.-
S3	50	36 ... 50	3RV10 42-4HA10		3RV11 42-4HA10		3RV13 42-4HC10	
S3	63	45 ... 63	3RV10 42-4JA10	21075.-	3RV11 42-4JA10	22260.-	3RV13 42-4JC10	20635.-
S3	75	57 ... 75	3RV10 42-4KA10		3RV11 42-4KA10		3RV13 42-4KC10	
S3	90	70 ... 90	3RV10 42-4LA10		3RV11 42-4LA10		3RV13 42-4LC10	
S3	100	80 ... 100	3RV10 42-4MA10		3RV11 42-4MA10		3RV13 42-4MC10	

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



**Class 20, Without Auxiliary Switch, Screw Terminals**

MPCB Specifications					MPCB with Standard release <sup>1)</sup>		
MPCB Size	MPCB rated current A	MPCB overload range A	MPCB Short circuit setting A	Breaking capacity kA	Type <sup>1)</sup>	Unit LP ₹	Std. pkg. (nos.)
S2	16	11...16	208	50	3RV10 31-4AB10	12500.-	1
	20	14...20	260	50	3RV10 31-4BB10		1
	25	18...25	325	50	3RV10 31-4DB10	13775.-	1
	32	22...32	416	50	3RV10 31-4EB10	14615.-	1
	40	28...40	520	50	3RV10 31-4FB10	16100.-	1
	45	36...45	585	50	3RV10 31-4GB10	17305.-	1
	50	36...50	650	50	3RV10 31-4HB10	18105.-	1
S3	40	28...40	520	100	3RV10 42-4FB10	21075.-	1
	50	36...50	650	100	3RV10 42-4HB10		1
	63	45...63	819	100	3RV10 42-4JB10		1
	75	57...75	975	100	3RV10 42-4KB10		1
	90	70...90	1170	100	3RV10 42-4LB10		1
	100	80...100	1235	100	3RV10 42-4MB10		1

## Accessories for 3RV2

**Mountable accessories**

Type of accessory		Version	MPCB size	Type*	Unit LP ₹	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
Lateral auxiliary switches with screw terminals mountable on the left		2 NO + 2 NC	For 3RV2: S00, S0	3RV29 01-1J#	1260.-	1
		2 NO + 2 NC	For 3RV1: S00, S0, S2, S3	3RV19 01-1J		1
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
Transverse auxiliary switches with screw terminals mountable on front		2 NO	For 3RV2: S00, S0	3RV29 01-1F	670.-	1
		2 NO	For 3RV1: S00, S0, S2, S3	3RV19 01-1F		1
Covers for transverse auxiliary switches		-	For 3RV2: S00, S0	3RV29 01-0H	325.-	1
		-	For 3RV1: S00, S0, S2, S3	3RV19 01-0H	320.-	1
Alarm contact	Signaling switches	For trip and short-circuit 1 NO + 1 NC each	S00, S0	■ 3RV29 21-1M	1350.-	1
Isolator modules	Visible isolating distance for isolating individual motor protection circuit breaker		S00, S0	3RV29 28-1A#	2900.-	1

# Available with screw type terminals only

Type of accessory	Version	MPCB size	Type*	Unit LP ₹	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		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, S1	3RV29 02-1DV0#		1

\*3RV29: For ordering with spring type terminals, please replace 8th digit from '1' to '2'

# Spring type terminals are not available for this accessory

## Accessories for 3RV2

Type of accessory	Version	MPCB size	Type*	Unit LP ₹	Std. pkg. (nos.)
Undervoltage trip unit with leading auxiliary contacts 2NO	230V 50Hz / 240V 60Hz	For 3RV2: S00, S0	3RV29 22-1CP0	3005.-	1
	415V 50Hz / 480V 60Hz		3RV29 22-1CV1		1
	230V 50Hz / 240V 60Hz	For 3RV1:S00	3RV19 12-1CP0	2320.-	1
	415V 50Hz / 480V 60Hz	For 3RV1: S00	3RV19 12-1CV1		1
	230V 50Hz / 240V 60Hz	For 3RV1: S0, S2, S3	3RV19 22-1CP0		1
	415V 50Hz / 480V 60Hz	For 3RV1: S0, S2, S3	3RV19 22-1CV1		1
Remote motorized operating mechanisms					
Remote motorized operating mechanisms	230V 50/60 Hz	S2	3RV19 36-3AP0	35000.-	1
	24V DC	S2	3RV19 36-3AB4		1
	230V 50/60 Hz	S3	3RV19 46-3AP0	39000.-	1
	24V DC	S3	3RV19 46-3AB4		1
Covers					
Terminal covers for box terminals	(2 units mountable per device)	S2	3RT19 36-4EA2	430.-	1
		S3	3RT19 46-4EA2		1
Terminal covers	For cable lug and busbar connection (2 units can be mounted per motor starter protector)	S3	3RT19 46-4EA1	605.-	1
Scale covers	Sealable, for covering the set current scale	For 3RV1: S00,S0,S2, S3	3RV19 08-0P	70.-	(1 pack = 10 pcs)
Scale covers	Sealable, for covering the set current scale	For 3RV20, 3RV21, 3RV24: S00, S0	3RV29 08-0P	70.-	(1 pack = 10 pcs)

### Door-coupling rotary operating mechanism

Type of accessory	Version	For MPCB Size	Type	Unit LP ₹	Std. pkg. (nos.)
Door-coupling rotary operating mechanism It has features like door interlock, defeat facility, padlocking facility Color of knob BLACK	Breaker operating kit with 300 mm shaft length & front drive (fixed coupler)	S00, S0	3RV19 26-1B-Z®	2115.-	1
Front drive (available as spare) – fixed coupler		S00, S0	8UC626	750.-	1

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

### 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 LP ₹	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 LP ₹	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
	connection from bottom ***	2.5...25	4...16	12 ... 4	For 3RV1 S00, S0	3RV19 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 LP ₹	Std. pkg. (nos.)
Front auxiliary contacts	1 C/O 1NO + 1NC	S00, S0, S2 and S3	3RV19 01 1D ■ 3RV19 01 1E	555.- 670.-	10 10
Side auxiliary contact	1NO + 1NC 2NO 2NC		■ 3RV19 01 1A 3RV19 01 1B 3RV19 01 1C	740.-	2 2 2
Alarm contact <sup>#</sup>	1NO + 1NC each for trip and S/C trip		■ 3RV19 21 1M	1715.-	1

<sup>#</sup> Alarm contact: For Size S0, S2, S3

Description	Version	Type	Unit LP ₹	Std. pkg. (nos.)	Description	Version	Type	Unit LP ₹	Std. pkg. (nos.)
U/V release	110V, 50Hz 230V, 50Hz 400V, 50Hz	3RV19 02 1AF0 3RV19 02 1AP0 3RV19 02 1AV0	1970.-	1 1 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
Shunt release	24V AC/DC 110V AC/DC 230V AC/220V DC 415 V AC/440V DC	3RV19 02 1DB0 3RV19 02 1DF0 3RV19 02 1DP0 3RV19 02 1DV0		1 1 1 1	3 phase busbars with modular spacing 63mm (For MPCB <b>with</b> side accessories)	for 2 MPCBs, size S00,S0 for 4 MPCBs, size S00,S0	3RV19 15 3AB 3RV19 15 3CB	1060.- 1375.-	10 10
Door operating mechanism with door interlock, defeat facility, padlocking facility extension shaft 300mm	Breaker operating kit for size & front drive (fixed coupler)  S0 S2 S3	  3RV19 26 1B-Z® 3RV19 36 1B-Z® 3RV19 46 1B-Z®		  2115.- 2335.- 3070.-	3 phase busbars with modular spacing 55mm (For MPCB <b>w/o</b> side accessories)	for 2 MPCBs, size S2 for 4 MPCBs, size S2	3RV19 35 1A 3RV19 35 1C	1260.- 1930.-	5 5
Front drive – fixed coupler (available as spare)	S0, S2, S3	8UC626		750.- 1	3 phase busbars with modular spacing 75mm (For MPCB <b>with</b> side accessories)	for 2 MPCBs, size S2 for 4 MPCBs, size S2	3RV19 35 3A 3RV19 35 3C	1930.- 2535.-	1 1
Isolator module (to ensure visible isolation)	for MPCBs, size S2	3RV19 38 1A	4620.-	1	3 phase in feed terminals	for MPCBs, size S00 for MPCBs, size S2	3RV19 15 5A 3RV19 35 5A	915.- 1740.-	10 2
3 phase busbars with modular spacing 45mm (For MPCB <b>w/o</b> side accessories)	for 2 MPCBs, size S00 or S0 for 3 MPCBs for 4 MPCBs for 5 MPCBs	3RV19 15 1AB 3RV19 15 1BB 3RV19 15 1CB 3RV19 15 1DB	855.-	10 10 10 10	@ 1 set available with breaker operator kit and 8UC front drive together				

### Fixing accessories

Type of accessory	Version	For MPCB size	Type*	Unit LP ₹	Std. pkg. (nos.)
Push-in lugs	For screwing the motor starter protector onto mounting plates. For each motor starter protector, 2 units are required.	For 3RV1: S00,S0	3RB19 00-0B	15.-	(1 pack = 10 pcs)
Push-in lugs		For 3RV2: S00,S0	3RV29 28-0B		(1 pack = 10 pcs)

### Enclosure With EMERGENCY STOP rotary operating mechanism, Lockable in 0 position

Degree of protection	Integrated terminals	Installation width (for switch + lateral auxiliary switch)	For MPCB size	Type*	Unit LP ₹	Std. pkg. (nos.)
IP55	N and PE	54 mm	S0	3RV19 23-1FA00	1300.-	1
		82 mm	S2	3RV19 33-1GA00	4230.-	1

## Motor protection circuit breakers - 3VU



### MPCBs for motor and plant protection

Overload release range A	Type (w/o aux. contact)	Unit LP ₹	Type (with 1NO+1NC)	Unit LP ₹	Std. pkg. (nos.)
0.1 - 0.16	3VU13 40-0MB00	3010.-	3VU13 40-1MB00	3530.-	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	3500.-	■ 3VU13 40-1ME00	4020.-	1
0.6 - 1	3VU13 40-0MF00		■ 3VU13 40-1MF00		1
1 - 1.6	3VU13 40-0MG00	3525.-	■ 3VU13 40-1MG00	4045.-	1
1.6 - 2.4	3VU13 40-0MH00		■ 3VU13 40-1MH00		1
2 - 3.2	3VU13 40-0NH00	3615.-	■ 3VU13 40-1NH00	4135.-	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 LP ₹	Type (with 1NO+1NC)	Unit LP ₹	Std. pkg. (nos.)
8 - 13	3VU13 40-0NL00	4190.-	■ 3VU13 40-1NL00	4705.-	1
10 - 16	3VU13 40-0MM00		■ 3VU13 40-1MM00		1
14 - 20	3VU13 40-0MN00		■ 3VU13 40-1MN00		1
18 - 25	3VU13 40-0MP00	4945.-	■ 3VU13 40-1MP00	5465.-	1
6 - 10	3VU16 40-0ML00	8015.-	■ 3VU16 40-1ML00	8530.-	1
10 - 16	3VU16 40-0MM00		■ 3VU16 40-1MM00		1
16 - 25	3VU16 40-0MN00	9740.-	■ 3VU16 40-1MN00	10265.-	1
22 - 32	3VU16 40-0MP00		■ 3VU16 40-1MP00		1
28 - 40	3VU16 40-0MQ00	10450.-	■ 3VU16 40-1MQ00	10975.-	1
36 - 52	3VU16 40-0MR00		■ 3VU16 40-1MR00		1
45 - 63 <sup>#</sup>	3VU16 40-0LS00	12425.-	3VU16 40-1LS00	12955.-	1

# Circuit-breakers for plant protection

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



MPCB		Contactor		MLFB of Connector	Unit LP ₹	Std. pkg. (nos.)
MLFB	Current	MLFB Rating	AC3 Current Rating			
3VU13	0.16 to 20A	3TF30 / 31	9 / 12 A	3TS9001-8K	255.-	1
3VU13	6 to 25A	3TF32 / 33	16 / 22A	3TS9002-8K	300.-	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 LP ₹	Std. pkg. (nos.)
0.2	0.2	1.2	■ 3VU13 40-1MS00	3535.-	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 LP ₹	Std. pkg. (nos.)
0.6	0.4 - 0.6	12	3VU13 40-1TE00	5620.-	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 LP ₹	Std. pkg. (nos.)
Add-on aux. block	1 NO + 1 NC	■ 3VU9 131-3AA00	680.-	1
Short-circuit signaller	1 NO + 1 NC	■ 3VU9 131-7AA00	800.-	1
Undervoltage release	230 V, 50 Hz	3VU9 132-0AB15	1880.-	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	3VU9 168-0KA00	505.-	1

Description	Version	Type	Unit LP ₹	Std. pkg. (nos.)
50 kA current limiter for 3VU13 only	Rated current = 56 A aux contacts 1NO+1NC	3VU9 138-2AB00	5260.-	1
Three-phase busbar for 3VU13 only	In feed terminal (63 A)	3RV1 925-5AB	1080.-	1
	busbars for 2 MPCBs	3VU9 135-1AB02	750.-	1
	busbars for 3 MPCBs	3VU9 135-1AB03	905.-	1
	busbars for 4 MPCBs	3VU9 135-1AB04	1165.-	1
	busbars for 5 MPCBs	3VU9 135-1AB05	1315.-	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® ■ 3VU9 163-Z®	2115.- 2260.-	1 1
Front drive for 3VU13 & 3VU16	Fixed coupler	■ 8UC 616	660.-	1

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

■ Stock items

Please order in multiples of standard packing.

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



### 3RW30

From 1.5 - 55 kW

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



### 3RW40

From 5.5 - 250 kW

- Soft start, soft stop, adjustable current limit.
- Integrated bypass contact system
- Integrated microprocessor based overload relay with adjustable trip class 10/15/20.
- Intrinsic device protection to protect against thermal overloading of thyristors.
- Integrated state and fault monitoring
- Innovative 2-phase "Polarity Balancing" operation



### 3RW44

From 22 - 1200 kW

- Coated Circuit board for better withstanding in harsh environments
- Torque control, Adjustable current limiting
- Graphical display (LCD) with background illumination
- Optional communication modules (PROFINET/PROFIBUS DP)
- Programmable 4 inputs and 3 outputs.
- Integrated motor overload protection with adjustable trip class 5/10/15/20/30 and device self-protection
- Integrated bypass contact system
- Integrated state and fault monitoring
- Standard circuit (in-line) and inside-the-delta circuit
- Creep speed / inching mode / brake function

### 3RW30 : for standard applications

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 LP ₹	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

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 LP ₹	Std. pkg. (nos)
200...480	5.5	12.5 / 11 / 10	3RW4024 1BB\$4	24905.-	1
200...480	11	25 / 23 / 21	3RW4026 1BB\$4	30770.-	1
200...480	15	32 / 29 / 26	3RW4027 1BB\$4	38105.-	1
200...480	18.5	38 / 34 / 31	3RW4028 1BB\$4	46895.-	1
200...480	22	45 / 42 / 39	3RW4036 1BB\$4	53175.-	1
200...480	30	63 / 58 / 53	3RW4037 1BB\$4	62800.-	1
200...480	37	72 / 62 / 60	3RW4038 1BB\$4	71170.-	1
200...480	45	80 / 73 / 66	3RW4046 1BB\$4	80240.-	1
200...480	55	106 / 98 / 90	3RW4047 1BB\$4	89315.-	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

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 LP ₹	Std. pkg. (nos)
200...460	75	134 / 117 / 100	3RW40 55-6BB † 4	118620.-	1
200...460	90	162 / 145 / 125	3RW40 56-6BB † 4	146535.-	1
200...460	132	230 / 205 / 180	3RW40 73-6BB † 4	167465.-	1
200...460	160	280 / 248 / 215	3RW40 74-6BB † 4	202355.-	1
200...460	200	356 / 315 / 280	3RW40 75-6BB † 4	223285.-	1
200...460	250	432 / 385 / 335	3RW40 76-6BB † 4	244220.-	1

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



**3RW44: for heavy duty applications**

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 LP ₹	Std. pkg. (nos)
200...460	15	22	29 / 26 / 23	3RW44 22 1BC\$4	81720.-	1
200...460	18.5	30	36 / 32 / 29	3RW44 23 1BC\$4	96315.-	1
200...460	22	45	47 / 42 / 37	3RW44 24 1BC\$4	102150.-	1
200...460	30	55	57 / 51 / 45	3RW44 25 1BC\$4	122580.-	1
200...460	37	75	77 / 68 / 59	3RW44 26 1BC\$4	145930.-	1
200...460	45	90	98 / 82 / 72	3RW44 27 1BC\$4	183870.-	1
200...460	55	110	113 / 100 / 88	3RW44 34 6BC\$4	213060.-	1
200...460	75	132	134 / 117 / 100	3RW44 35 6BC\$4	233490.-	1
200...460	90	160	162 / 145 / 125	3RW44 36 6BC\$4	241020.-	1
200...460	110	200	203 / 180 / 156	3RW44 43 6BC\$4	249150.-	1
200...460	132	250	250 / 215 / 185	3RW44 44 6BC\$4	270510.-	1
200...460	160	315	313 / 280 / 250	3RW44 45 6BC\$4	291860.-	1
200...460	200	355	356 / 315 / 280	3RW44 46 6BC\$4	344395.-	1
200...460	250	400	432 / 385 / 335	3RW44 47 6BC\$4	391530.-	1
230...460	315	560	551 / 494 / 438	3RW44 53 6BC\$4	496160.-	1
230...460	355	630	615 / 551 / 489	3RW44 54 6BC\$4	656685.-	1
230...460	400	710	693 / 615 / 551	3RW44 55 6BC\$4	741325.-	1
230...460	450	800	780 / 693 / 615	3RW44 56 6BC\$4	817210.-	1
230...460	500	900	880 / 780 / 693	3RW44 57 6BC\$4	855150.-	1
230...460	560	1000	970 / 850 / 760	3RW44 58 6BC\$4	925200.-	1
230...460	630	1100	1076 / 970 / 880	3RW44 65 6BC\$4	1068215.-	1
230...460	710	1200	1214 / 1076 / 970	3RW44 66 6BC\$4	1211225.-	1

**Accessories for 3RW44**

Description	Type	Unit LP ₹	Std. pkg. (nos.)
Software for PC interface	3Z51313-4CC10-0YA5	5165.-	1
PC cable for PC/PG communication - USB connection	3UF79410AA00-0	8230.-	1
Profibus communication module	3RW49000KC00	18640.-	1
ProfinET communication module	3RW49000NC00	31210.-	
External display and operating module	3RW49000AC00	16935.-	1
- Connection cable for external display module (0.5 mtr - flat)	3UF79320AA00-0	1030.-	1
- Connection cable for external display module (1 mtr - round)	3UF79370BA00-0	2590.-	1
- Connection cable for external display module (2.5 mtr - round)	3UF79330BA00-0	2820.-	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<sub>load</sub> < 10 × J<sub>motor</sub>

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 Simulation Tool for Soft Starters (STS).**

Refer technical specifications for more details.

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



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- STS download:  
<https://support.industry.siemens.com/cs/ww/en/view/101494917>
- 3RW44 User Manual:  
<https://support.industry.siemens.com/cs/ww/en/view/21772518>
- 3RW30/40 User Manual:  
<https://support.industry.siemens.com/cs/ww/en/view/38752095>
- Soft Starter ES 2007 (14 day trial version):  
<https://support.industry.siemens.com/cs/ww/en/view/85580333>

## 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	2070.-	1
0.75	0.55	3TW42 90-1A.66	1-1.6		1
1	0.75	■ 3TW42 90-1A.68	1.6-2.5		1
1.5	1.1	3TW42 90-1A.69	2-3.2		1
2	1.5	■ 3TW42 90-1A.71	3.2-5		1
3	2.2	■ 3TW42 90-1A.72	4-6.3		1
5	3.7	■ 3TW42 90-1A.74	6.3-10		1
–	–	■ 3TW42 90-1A.75	8-12.5		1
7.5	5.5	■ 3TW42 90-1A.77	10-16	2710.-	1
10	7.5	■ 3TW42 90-1A.78	12.5-20		1

### 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 LP ₹	Std. pkg. (nos.)
HP	kW				
15	11	3TW04 93-2AR0*#	3UA52(16-25A)	5285.-	1
20	15	■ 3TW04 94-2A..	3UA55 (20-32A)	6490.-	1
25	18.5	■ 3TW04 95-2A..	3UA55 (25-36A)	7420.-	1
30	22	■ 3TW04 96-2A..	3UA58 (32-50A)	9150.-	1
40	30	3TW04 97-2A..	3UA58 (40-57A)	11665.-	1
50	37	3TW04 98-2A..	3UA58 (57-70A)	15135.-	1
75	55	3TW05 90-2A..	3UA5830 (85-105A)	21210.-	1

\* Only coil voltage of 415V 50Hz available

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

### 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	9145.-	1
12.5	9.3	■ 3TE02 90-0A.75	8-12.5	9595.-	1
15	11	■ 3TE02 90-0A.77	10-16	9845.-	1
20	15	■ 3TE02 90-0A.78	12.5-20	11965.-	1
25	18.5	■ 3TE02 90-0A.79	16-25	13330.-	1

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

§ Only coil voltage of 415V 50Hz available

### 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	6960.-	1
10	7.5	3LW42 90-0A.74	6.3-10		1
12.5	9.3	3LW42 90-0A.75	8-12.5		1
15	11	3LW42 90-0A.77	10-16		1

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

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

Motor rating at 415V, 3ph, 50Hz		Type <sup>2)</sup> (ASD)	Unit LP ₹	Std. pkg. (nos.)
HP	kW			
30	22	3TE04 94-2A...	19705.-	1
40	30	3TE04 94-2A...	19705.-	1
50	37	3TE04 95-2A...	27520.-	1
60	45	3TE04 96-2A...	39045.-	1
75	55	3TE04 97-2A...	47780.-	1
100	75	3TE05 94-2AR0* <sup>†</sup>	67990.-	1
125	90	3TE05 95-2AR0* <sup>†</sup>	69990.-	1
150	110	3TE05 96-2AR0* <sup>†</sup>	70990.-	1
180	132	3TE05 97-2AR0* <sup>†</sup>	75990.-	1

\*<sup>†</sup> Have in-built relay

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



Get the right start  
with Siemens

### 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

## Spares for starters

### Spares for 3TW42/3LW42 starters

Description	Type	Unit MRP ₹	Std. pkg. (nos.)
Contactor	■ 3TW0 290-0A.51 <sup>1)</sup>	1230.-	1
Main contact kit - single pole	3TX0 200-0YA1	160.-	1
Main contact kit - 3 pole	■ 3TX0 200-0YA0	470.-	1
Coil	■ 3TX0 203-0Y.6 <sup>1)</sup>	265.-	1
Moving contact carrier	3TX0 200-0YD0	160.-	10
Arc chamber	■ 3TX0 202-0YA0	60.-	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	135.-	1
'Off' actuator for 3TW42	■ 3TX0 204-1YB0	135.-	1
'Reset' actuator for HSD	3TX0 204-1YR0	135.-	1
On/Off contact	■ 3SX1 551-1YA	225.-	1
Switch for HSD starter	3LA0 204-4YB	&	1

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

& Refer to the valid LV Power distribution products LP

<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.)
Contactor (1NO+1NC)	3TW0 311-0A&51	2145.-	1
Contactor (2NO)	3TW0 320-0A&51	2145.-	1
Main contact kit three pole	3TX0 300-0YA0	950.-	1
Main contact kit single pole	3TX0 300-0YA1	360.-	1
Coil	3TX0 303-0Y&6	360.-	1
Aux. fixed contacts (NO)	3TX0 300-1YB0	75.-	10
Aux. fixed contacts (NC)	3TX0 300-1YD0	75.-	10
Aux. moving contacts	3TX0 300-1YC0	75.-	10
Birelay	3UW5 002.. <sup>5</sup>	Upon enquiry	1
Star-delta timer	3RP15 76 1N#20 8K	2065.-	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 LP ₹	Std. pkg. (nos.)
Main, aux contacts & spare coils	Refer page 42	-	-
On/Off actuators	■ 3SX1 552-1YA	110.-	1
On/Off contact	■ 3SX1 551-1YA	225.-	1
On/Off actuator for 3TE05 only	3SB5201-7EC01	295.-	1
Electronic Timer	3RP15 76-1NM20 8K	2065.-	1
Accessory for independent mounting of 3UA58	3UX1421-0XA	500.-	1

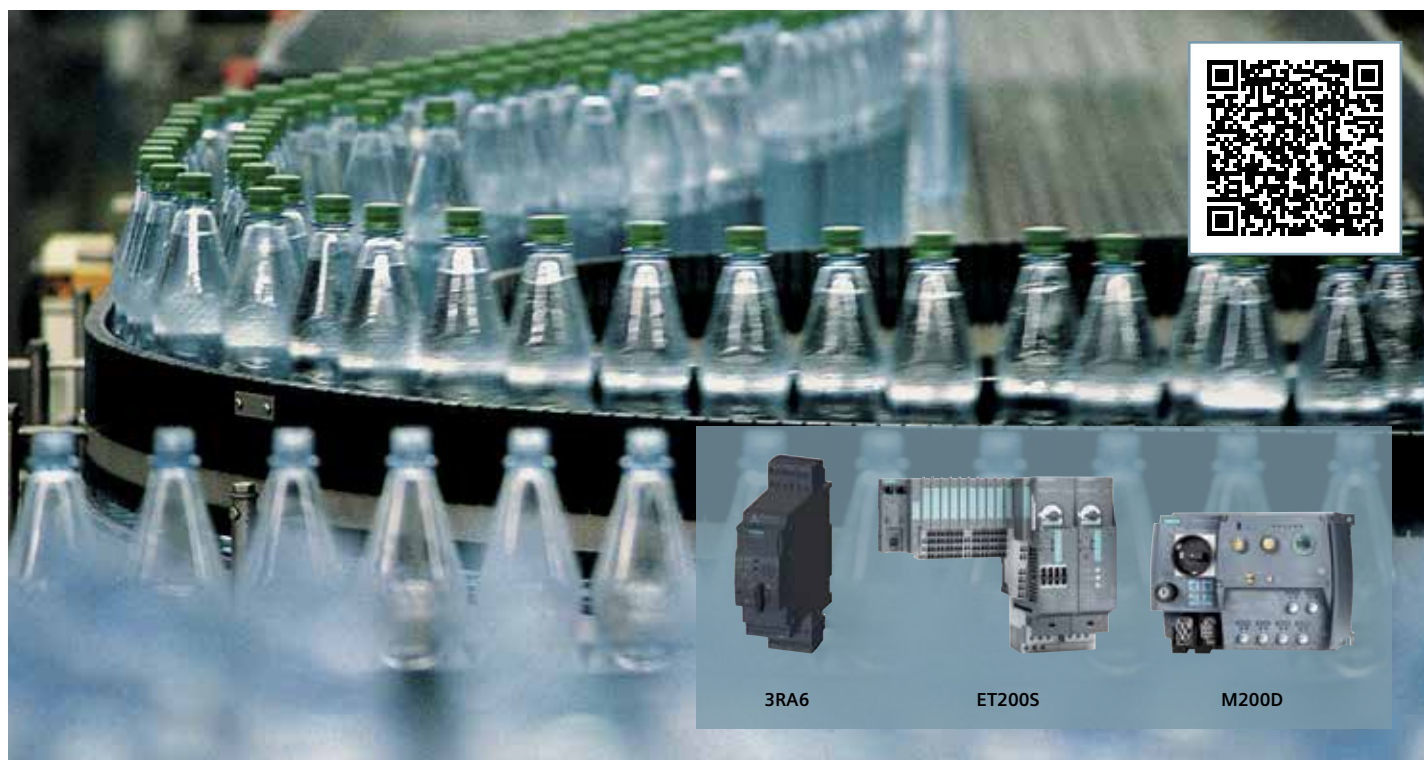
† Enter code for coil voltage F0 (110V), P0 (230V), R0 (415V)


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


# 1NO + 1NC

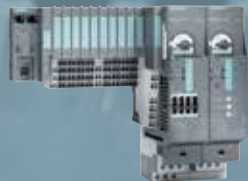
@ 2NO + 2NC


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





  
**3RA6**

  
**ET200S**

  
**M200D**

MRP - Maximum Retail Price

## Electronic timers - 3RP



Function	Time range	Input voltage		Type	Unit LP ₹	Std. pkg (nos.).
		AC (50/60Hz)	DC			
On-delay with 1C/O contacts	0.5 – 10 sec	24/100-127 24/200-240	24 24	■ 3RP15 11-1AQ30 8K ■ 3RP15 11-1AP30 8K	1905.-	1 1
	5 – 100 sec	24/100-127 24/200-240	24 24	■ 3RP15 13-1AQ30 8K ■ 3RP15 13-1AP30 8K	1915.-	1 1
	0.05 sec to 100 Hrs. (15 time setting ranges)	24/100-127 24/200-240	24 24	■ 3RP15 25-1AQ30 8K ■ 3RP15 25-1AP30 8K	2805.-	1 1
		24 to 240	24 to 240	■ 3RP15 25-1BW30 8K#	3785.-	1
Off-delay with 1C/O contacts	0.5 – 10 sec	24/100-127 24/200-240	24 24	■ 3RP15 31-1AQ30 8K ■ 3RP15 31-1AP30 8K	2525.-	1 1
	5 – 100 sec	24/100-127 24/200-240	24 24	■ 3RP15 33-1AQ30 8K ■ 3RP15 33-1AP30 8K	2560.-	1 1
Multi-function with 1C/O contacts	0.05 sec to 100 Hrs. (15 time setting ranges)	24 - 240	24 - 240	■ 3RP15 05-1AW30 8K	3900.-	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*	775.- <sup>\$</sup>	1 pack
Star-Delta 1NO inst & 1NO delayed	1 – 20 sec	200-240 / 380-440V AC		3RP15 74-1NM20 8K	1980.-	1
	3 – 60 sec	24/100-127	24	■ 3RP15 76-1NQ30 8K	2015.-	1
		24/200-240	24	■ 3RP15 76-1NP30 8K	2015.-	1
		200-240/380-440V AC		■ 3RP15 76-1NM20 8K	2065.-	1
		230-400V AC		■ 3RP15 76-1NP20 8K	2065.-	1
Push-in lug (for mounting 3RP timer with screws)				3RP19 03 8K (1 pack = 10 pcs)	160.- <sup>\$</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 LP ₹	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 LP ₹	Std. pkg. (nos.)
------------------------------	---	----------------	-------	--------------	------------------------

#### Basic Version

S00	1.6...16	24V AC/DC	3RR21 41-1AA30	8735.-	1
	1.6...16	24...240V AC/DC	3RR21 41-1AW30	9530.-	1
S0	4 ... 40	24V AC/DC	3RR21 42-1AA30	10325.-	1
	4 ... 40	24...240V AC/DC	3RR21 42-1AW30	11920.-	1

#### Standard Version

S00	1.6...16	24V AC/DC	3RR22 41-1FA30	17475.-	1
	1.6...16	24...240V AC/DC	3RR22 41-1FW30	19065.-	1
S0	4 ... 40	24V AC/DC	3RR22 42-1FA30	20660.-	1
	4 ... 40	24...240V AC/DC	3RR22 42-1FW30	22250.-	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 LP ₹	Std. pkg. (nos.)
Yes	Yes	10%	-	-	-	-	1 CO	160-690V	3UG45 12 1AR20	8680.-	1
Yes	Yes	20%	160-690V	-	Off delay 0.1-20 s	-	2 CO	160-690V	3UG45 13 1BR20	11510.-	1
Yes	Yes	Yes	160-690V	160-690V	Off delay 0.1-20 s	Yes	2 CO	160-690V	3UG46 15 1CR20	16670.-	1



## SIRIUS

## 3UG Monitoring Relays for Electrical and Additional Measurements

Hysteresis	Function	Version of Auxiliary Contacts	Control supply voltage $U_s^{1)}$	Type	Unit LP ₹	Std. pkg. (nos.)
		CO	V AC			
--	Phase Sequence Monitoring 3 Phase	1	360...520	3UG45111AP20	8670.-	1
		2		3UG45111BP20	9945.-	1
--	Monitoring of phase sequence, phase failure and phase unbalance	2	160...690	3UG45121BR20	11085.-	1
Adjustable 1-20V	Digital Monitoring Relay, phase sequence, phase & N conductor failure (90...400 w.r.t. N), overvoltage and undervoltage (Tripping delay 1-20) <sup>2)</sup>	2 <sup>2)</sup>	90...400 w.r.t. N	3UG46161CR20	19735.-	1
p.f. 0.1 & active current $I_{res}$ 0.1...2.0A	Digital Power factor and active current monitoring (p.f. range 0.1 to 0.99 & & active current $I_{res}$ 0.2-10A) ON-delay 0-99s, OFF-delay 0.1-20s)	2	90...690	3UG46411CS20	19735.-	1
0.1...150V	Digital Voltage Monitoring Relay range 17 to 275V AC/DC spikedelay 0.1 to 20 sec	1	Self Powered	3UG46331AL30	15110.-	1
0.1...300V	Digital Voltage Monitoring Relay range 10...600V AC/DC, Delay 0.1...20sec	1	24...240V AC/DC	3UG46321AW30	15835.-	1
--	#Level Monitoring Relay sensitivity 2KΩ to 200KΩ. Tripping delay 0.1...10sec	1	24...240V AC/DC	3UG45011AW30	10715.-	1
--	#Wire electrode for Level Monitoring Relay, 500 MM long, with teflon insulation			3UG32073A	9630.-	1

1) Absolute limit values

2) 1 CO Contact each and 1 tripping delay time each for  $U_{min}$  and  $U_{max}$ .3) LSB: Smallest adjustable value, transformer-dependent,  $\leq 1\%$  of  $I_{\Delta n}$ .

# Level monitoring relays must be ordered along with electrodes, for different level controls variety of electrodes are available, for more details refer IC10.

## Thermistor motor protection relay - 3RN1

Type of Thermistor	Reset	Contacts	Control Supply voltage	MLFB	Unit LP ₹	Std. pkg. (nos.)
PTC type A	Auto	1CO	230V AC	3RN1000-1AM00	5005.-	1
PTC type A	Auto	1CO	24 AC/DC 50/60Hz	3RN10001AB00	5005.-	1
PTC type A	Auto	1CO	110 AC 50/60Hz	3RN10001AG00	5005.-	1

## Insulation monitoring relay - 3UG

Measuring Range $U_e$ kV	Function	Rated control supply voltage $U_s$ V	Type	Unit LP ₹	Std. pkg. (nos.)
1-110	Insulation monitors for ungrounded AC networks	24-240 AC/DC	3UG45811AW30	23510.-	1
		0 ... 250 AC	3UG45821AW30	30110.-	
1-110	Insulation monitors for ungrounded DC & AC networks	0 ... 400 AC, 0 ... 600 DC <sup>1)</sup>	3UG45831CW30	66360.-	1
	Voltage reducer modules	Extending the mains voltage range to max. 690 V AC and 1000 V DC	3UG49831A	35450.-	1
	Sealable, transparent covers	For 3UG45 81, 3UG45 82	3UG49810C	1145.-	1
		For 3UG45 83	3UG49830C	1185.-	1

1) With 3UG49 83-1A voltage reducer module suitable also for the insulation monitoring of IT networks up to 690 V AC and 1000 V DC.



## Timing and Monitoring Relays



### Features and Benefits

#### 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

### 7UG0 monitoring relays

Description			Type	Unit LP ₹	Std. pkg. (nos.)
Line monitoring relay	Self powered	3Ph-3W	7UG0 712-1AA20	1015.-	1
	Self powered	3Ph-3W, 3Ph-4W	7UG0 818-1CA20	2340.-	1
Voltage Monitoring relay	Self powered	3Ph-3W	7UG0 753-1AA20	1760.-	1
Current Monitoring relay	110 V AC	1Ph-2W	7UG0 821-1AB20	3080.-	1
	230 V AC	1Ph-2W	7UG0 822-1AD20	2930.-	1
	110 V AC	1Ph-2W, 3Ph-3W, 3Ph-4W	7UG0 8311-AB20	3745.-	1
	230 V AC	1Ph-2W, 3Ph-3W, 3Ph-4W	7UG0 832-1AD20	3565.-	1
Earth leakage relay	110 V AC	1Ph-2W, 3Ph-3W, 3Ph-4W	7UG0 841-1CB20	3815.-	1
	230 V AC	1Ph-2W, 3Ph-3W, 3Ph-4W	7UG0 842-1CD20	3815.-	1
CBCT		35mm	7UG0 9-96	1330.-	1
		70mm	7UG0 9-97	1555.-	1
		120mm	7UG0 9-99	2515.-	1

### 7PV0 timers

Description			Type	Unit LP ₹	Std. pkg. (nos.)
ON delay timer	230V AC		7PV0712-1AD20	1080.-	1
Multifunction timer	20-240V AC/DC	5 functions	7PV0722-1BV20	1400.-	1
Multifunction timer	20-240V AC/DC	15 functions	7PV0732-1AV20	2010.-	1



## Smart. Easy. Reliable.






### 7RQ Plug-in Relays

#### Features and Benefits



- LED status indicator as a standard feature - allows personnel to see the relay status in dark conditions
- Mechanical indicators - allow personnel to see relay status under normal light or bright conditions
- Easy grip cover - adds to the ease of removing the relay from the socket
- Removable I.D. (identification) label- allows for easy identification
- Wide operating voltage range
- Durable and maintenance free product
- DIN rail / PCB mounting – Quick & Easy Installation
- RoHS compliant



## Plug-in-relay - 7RQ new

Relay		Standard Features	Control supply voltage* (V)		MLFB	Unit LP ₹	Std. pkg. (nos.)
	6A 5 pin	<ul style="list-style-type: none"> <li>Mechanical Flag</li> <li>LED indicator</li> <li>Free wheeling diode</li> </ul>	DC	24	7RQ0 100-0AC00	190.-	10
				48	7RQ0 100-0AD00	260.-	10
				110	7RQ0 100-0AE00	360.-	10
		<ul style="list-style-type: none"> <li>Mechanical Flag</li> <li>LED indicator</li> </ul>	AC	24	7RQ0 100-0AM10	230.-	10
				48	7RQ0 100-0AN10	360.-	10
				110	7RQ0 100-0AP10	375.-	10
	6A 8 pin	<ul style="list-style-type: none"> <li>Mechanical Flag</li> <li>LED indicator</li> <li>Free wheeling diode</li> </ul>	DC	24	7RQ0 100-0BC00	285.-	10
				48	7RQ0 100-0BD00	365.-	10
				110	7RQ0 100-0BE00	385.-	10
		<ul style="list-style-type: none"> <li>Mechanical Flag</li> <li>LED indicator</li> </ul>	AC	24	7RQ0 100-0BM10	345.-	10
				48	7RQ0 100-0BN10	380.-	10
				110	7RQ0 100-0BP10	390.-	10
	10A 8 pin	<ul style="list-style-type: none"> <li>LED indicator</li> </ul>	DC	24	7RQ0 110-0BC00	385.-	10
				48	7RQ0 110-0BD00	440.-	10
				110	7RQ0 110-0BE00	490.-	10
		<ul style="list-style-type: none"> <li>LED indicator</li> </ul>	AC	24	7RQ0 110-0BM00	440.-	10
				48	7RQ0 110-0BN00	490.-	10
				110	7RQ0 110-0BP00	490.-	10
	10A 11 pin	<ul style="list-style-type: none"> <li>LED indicator</li> </ul>	DC	24	7RQ0 100-0CC00	465.-	10
				48	7RQ0 100-0CD00	490.-	10
				110	7RQ0 100-0CE00	565.-	10
		<ul style="list-style-type: none"> <li>LED indicator</li> </ul>	AC	24	7RQ0 100-0CM00	490.-	10
				48	7RQ0 100-0CN00	515.-	10
				110	7RQ0 100-0CP00	550.-	10
	5A 14 pin	<ul style="list-style-type: none"> <li>LED indicator</li> </ul>	DC	24	7RQ0 100-0DC00	400.-	10
				48	7RQ0 100-0DD00	420.-	10
				110	7RQ0 100-0DE00	510.-	10
		<ul style="list-style-type: none"> <li>LED indicator</li> </ul>	AC	24	7RQ0 100-0DM00	430.-	10
				48	7RQ0 100-0DN00	460.-	10
				110	7RQ0 100-0DP00	515.-	10
				230	7RQ0 100-0DR00	550.-	10

\* Control supply voltage available upon request : 6V & 12V in AC / DC  
115 V AC

Socket	Standard Features	MLFB	Unit LP ₹	Std. pkg. (nos.)
	PCB mounted	7RQ0 202-1AX00	65.-	10
	Din rail mounting	7RQ0 201-1AX00	115.-	10
	PCB mounted	7RQ0 202-1BX00	75.-	10
	Din rail mounting	7RQ0 201-1BX00	185.-	10
	PCB mounted	7RQ0 212-1BX00	90.-	10
	Din rail mounting	7RQ0 211-1BX00	205.-	10
	Din rail mounting	7RQ0 201-1CX00	295.-	10
	PCB mounted	7RQ0 202-1DX00	115.-	10
	Din rail mounting	7RQ0 201-1DX00	215.-	10



## 8WN signalling column



\* Available from 1st Jan 2016

### Continuous light: 70mm LED modular unit IP 65

MLFB	Color	Voltage	Unit LP* ₹	Std. pkg. (nos.)
8WN4420-5AB00	Red	24 V AC/DC	1950.-	1
8WN4420-5AC00	Green		1950.-	1
8WN4420-5AD00	Yellow		1950.-	1
8WN4420-5AE00	White		1950.-	1
8WN4420-5AF00	Blue		1950.-	1
8WN4440-5AB00	Red	110 V AC/DC	1810.-	1
8WN4440-5AC00	Green		1810.-	1
8WN4440-5AD00	Yellow		1810.-	1
8WN4440-5AE00	White		1810.-	1
8WN4440-5AF00	Blue		1810.-	1
8WN4450-5AB00	Red	220 V AC	1810.-	1
8WN4450-5AC00	Green		1810.-	1
8WN4450-5AD00	Yellow		1810.-	1
8WN4450-5AE00	White		1810.-	1
8WN4450-5AF00	Blue		1810.-	1

### Blinking light: 70mm LED modular unit IP 65

MLFB	Color	Voltage	Unit LP* ₹	Std. pkg. (nos.)
8WN4420-5BB00	Red	24 V AC/DC	2125.-	1
8WN4420-5BC00	Green		2125.-	1
8WN4420-5BD00	Yellow		2125.-	1
8WN4420-5BE00	White		2125.-	1
8WN4420-5BF00	Blue		2125.-	1
8WN4440-5BB00	Red	110 V AC/DC	2125.-	1
8WN4440-5BC00	Green		2125.-	1
8WN4440-5BD00	Yellow		2125.-	1
8WN4440-5BE00	White		2125.-	1
8WN4440-5BF00	Blue		2125.-	1
8WN4450-5BB00	Red	220 V AC	2125.-	1
8WN4450-5BC00	Green		2125.-	1
8WN4450-5BD00	Yellow		2125.-	1
8WN4450-5BE00	White		2125.-	1
8WN4450-5BF00	Blue		2125.-	1

### Accessories for 70mm LED modular unit

MLFB	Description	Unit LP* ₹	Std. pkg. (nos.)
8WN4408-0AF00	Connection components, Screw terminals	600.-	1
8WN4408-0AG00	Caps for light elements	60.-	1
8WN4408-0DH00	Feet with pipes, single; Length 60mm	105.-	1
8WN4408-0DJ00	Feet with pipes, single; Length 80mm	120.-	1
8WN4408-0DA00	Feet with pipes, single; Length 110mm	135.-	1
8WN4408-0CC00	Brackets for side mounting, use together with foot with pipe	120.-	1

MLFB	Description	Unit LP* ₹	Std. pkg. (nos.)
8WN4408-0CF00	Brackets for side mounting,	475.-	1
8WN4408-0CG00	Fold-out support	230.-	1
8WN4420-0GA00	24 V AC/DC, continuous buzzer	1415.-	1
8WN4420-0HA00	24 V AC/DC, discontinuous buzzer	1650.-	1
8WN4440-0GA00	110 V AC/DC, continuous buzzer	1415.-	1
8WN4440-0HA00	110 V AC/DC, discontinuous buzzer	1650.-	1
8WN4450-0GA00	220 V AC, continuous buzzer	1415.-	1
8WN4450-0HA00	220 V AC, discontinuous buzzer	1650.-	1



**Continuous light without buzzer: 50mm LED complete unit IP 20**

MLFB	Color	Voltage	Unit LP* ₹	Std. pkg. (nos.)
8WN2221-6AB00	R	24V AC/DC	1810.-	1
8WN2222-6AG00	R, G		2595.-	1
8WN2223-6AJ00	R,Y,G		3385.-	1
8WN2241-6AB00	R	110 V AC/DC	1810.-	1
8WN2242-6AG00	R, G		2595.-	1
8WN2243-6AJ00	R,Y,G		3385.-	1
8WN2251-6AB00	R	220 V AC	1810.-	1
8WN2252-6AG00	R, G		2595.-	1
8WN2253-6AJ00	R,Y,G		3385.-	1

**Blinking light without buzzer: 50mm LED complete unit IP 20**

MLFB	Color	Voltage	Unit LP* ₹	Std. pkg. (nos.)
8WN2221-6BB00	R	24V AC/DC	2125.-	1
8WN2222-6BG00	R, G		2910.-	1
8WN2223-6BJ00	R,Y,G		3695.-	1

**Continuous light with discontinuous buzzer: 50mm LED complete unit IP 20**

MLFB	Color	Voltage	Unit LP* ₹	Std. pkg. (nos.)
8WN2222-6KB00	R	24V AC/DC	2360.-	1
8WN2223-6KG00	R, G		3145.-	1
8WN2224-6KJ00	R,Y,G		3935.-	1
8WN2242-6KB00	R	110 V AC/DC	2360.-	1
8WN2243-6KG00	R, G		3145.-	1
8WN2244-6KJ00	R,Y,G		3935.-	1
8WN2252-6KB00	R	220 V AC	2360.-	1
8WN2253-6KG00	R, G		3145.-	1
8WN2254-6KJ00	R,Y,G		3935.-	1

**Continuous light with continuous buzzer: 50mm LED complete unit IP 20**

MLFB	Color	Voltage	Unit LP* ₹	Std. pkg. (nos.)
8WN2222-6JB00	R	24V AC/DC	2125.-	1
8WN2223-6JG00	R, G		2910.-	1
8WN2224-6JJ00	R,Y,G		3695.-	1
8WN2242-6JB00	R	110 V AC/DC	2125.-	1
8WN2243-6JG00	R, G		2910.-	1
8WN2244-6JJ00	R,Y,G		3695.-	1
8WN2252-6JB00	R	220 V AC	2125.-	1
8WN2253-6JG00	R, G		2910.-	1
8WN2254-6JJ00	R,Y,G		3695.-	1

**Blinking light with continuous buzzer: 50mm LED complete unit IP 20**

MLFB	Color	Voltage	Unit LP* ₹	Std. pkg. (nos.)
8WN2222-6MB00	R	24V AC/DC	2360.-	1
8WN2223-6MG00	R, G		3145.-	1
8WN2224-6MJ00	R,Y,G		3935.-	1

**Blinking light with discontinuous buzzer: 50mm LED complete unit IP 20**



MLFB	Color	Voltage	Unit LP* ₹	Std. pkg. (nos.)
8WN2222-6NB00	R	24V AC/DC	2595.-	1
8WN2223-6NG00	R, G		3385.-	1
8WN2224-6NJ00	R,Y,G		4170.-	1





## Indicating Lamps 3SB5


### Compact LED indicating lamps

	Voltage	Colour	Type Ref.	Unit LP ₹	Std Pkg (nos.)
	24 V AC/DC 50/60 Hz	Red	■ 3SB52 85-6HC01	240.-	10
		Green	■ 3SB52 85-6HE01	240.-	10
		Amber	■ 3SB52 85-6HL01	240.-	10
		Blue	■ 3SB52 85-6HF01	610.-	10
		White	3SB52 85-6HG01	240.-	10
		Yellow	3SB52 85-6HD01	240.-	10
		Clear	3SB52 85-6HH01	240.-	10
	30V DC ®	Red	3SB52 85-6HC13	260.-	10
		Green	3SB52 85-6HE13	260.-	10
		Amber	3SB52 85-6HL13	260.-	10
		Blue	3SB52 85-6HF13	690.-	10
		White	3SB52 85-6HG13	260.-	10
		Yellow	3SB52 85-6HD13	260.-	10
		Clear	3SB52 85-6HH13	260.-	10
	110 V AC 50/60 Hz	Red	■ 3SB52 85-6HC02	240.-	10
		Green	■ 3SB52 85-6HE02	240.-	10
		Amber	■ 3SB52 85-6HL02	240.-	10
		Blue	■ 3SB52 85-6HF02	610.-	10
		White	3SB52 85-6HG02	240.-	10
		Yellow	3SB52 85-6HD02	240.-	10
		Clear	3SB52 85-6HH02	240.-	10
	110 V DC®	Red	■ 3SB52 85-6HC04	260.-	10
		Green	■ 3SB52 85-6HE04	260.-	10
		Amber	■ 3SB52 85-6HL04	260.-	10
		Blue	■ 3SB52 85-6HF04	680.-	10
		White	3SB52 85-6HG04	260.-	10
		Yellow	3SB52 85-6HD04	260.-	10
		Clear	3SB52 85-6HH04	260.-	10
	220/240 V AC 50/60 Hz	Red	■ 3SB52 85-6HC03	240.-	20
		Green	■ 3SB52 85-6HE03	240.-	20
		Amber	■ 3SB52 85-6HL03	240.-	20
		Blue	■ 3SB52 85-6HF03	610.-	10
		White	3SB52 85-6HG03	240.-	20
		Yellow	3SB52 85-6HD03	240.-	20
		Clear	3SB52 85-6HH03	240.-	20
	220 V DC®	Red	■ 3SB52 85-6HC05	260.-	10
		Green	■ 3SB52 85-6HE05	260.-	10
		Amber	■ 3SB52 85-6HL05	260.-	10
		Blue	■ 3SB52 85-6HF05	680.-	10
		White	3SB52 85-6HG05	260.-	10
		Yellow	3SB52 85-6HD05	260.-	10
		Clear	3SB52 85-6HH05	260.-	10

### Wide band compact LED indicating lamps

	Voltage	Colour	Type Ref.	Unit LP ₹	Std Pkg (nos.)
	42 to 240 V AC & 42 to 220 V DC	Red	■ 3SB52 35-6HC14	375.-	10
		Green	■ 3SB52 35-6HE14	375.-	10
		Amber	■ 3SB52 35-6HL14	375.-	10
		Blue	■ 3SB52 35-6HF14	660.-	10
		White	3SB52 35-6HG14	375.-	10
		Yellow	3SB52 35-6HD14	515.-	10
		Clear	3SB52 35-6HH14	515.-	10


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

	Voltage	Type Ref.	Unit LP ₹	Std Pkg (nos.)
	24 V AC/DC	3SB52 86-6H.01	120.-	10
	110 V AC/DC #	3SB52 86-6H.11	135.-	10
	230 V AC 50/60 Hz	3SB52 86-6H.12	145.-	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 LP ₹	Std Pkg (nos.)
	Red	3SB52 86-6HC00	115.-	10
	Green	3SB52 86-6HE00	115.-	10
	Amber	3SB52 86-6HL00	115.-	10
	Blue	3SB52 86-6HF00	115.-	10
	Clear	3SB52 86-6HH00	115.-	10


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

	Colour	Type Ref.	Unit LP ₹	Std Pkg (nos.)
	Red	■ 3SB52 01-6BC00	75.-	10
	Green	■ 3SB52 01-6BE00	75.-	10
	Amber	■ 3SB52 01-6BL00	75.-	10
	Blue	■ 3SB52 01-6BF00	75.-	10
	White	3SB52 01-6BG00	75.-	10
	Yellow	3SB52 01-6BD00	75.-	10
	Clear	3SB52 01-6BH00	75.-	10


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

	Voltage	Colour	Type Ref.	Unit LP ₹	Std Pkg (nos.)
	24 V AC/DC 50/60 Hz	Red	■ 3SB54 00-7CC	200.-	10
		Green	■ 3SB54 00-7CE	200.-	10
		Amber	■ 3SB54 00-7CL	200.-	10
		Blue	■ 3SB54 00-7CF	645.-	10
		White†	3SB54 00-7CG	200.-	10
		Yellow	3SB54 00-7CD	200.-	10
	110 V AC 50/60 Hz	Red	■ 3SB54 00-7EC	200.-	10
		Green	■ 3SB54 00-7EE	200.-	10
		Amber	■ 3SB54 00-7EL	200.-	10
		Blue	■ 3SB54 00-7EF	645.-	10
		White†	3SB54 00-7EG	200.-	10
		Yellow	3SB54 00-7ED	200.-	10
	110 V DC®	Red	■ 3SB54 00-7DC	200.-	10
		Green	■ 3SB54 00-7DE	200.-	10
		Amber	■ 3SB54 00-7DL	200.-	10
		Blue	■ 3SB54 00-7DF	645.-	10
		White†	3SB54 00-7DG	200.-	10
		Yellow	3SB54 00-7DD	200.-	10
	230 V AC 50/60 Hz	Red	■ 3SB54 00-7TC	200.-	10
		Green	■ 3SB54 00-7TE	200.-	10
		Amber	■ 3SB54 00-7TL	200.-	10
		Blue	■ 3SB54 00-7TF	645.-	10
		White†	3SB54 00-7TG	200.-	10
		Yellow	3SB54 00-7TD	200.-	10
	220 V DC®	Red	■ 3SB54 00-7HC	200.-	10
		Green	■ 3SB54 00-7HE	200.-	10
		Amber	■ 3SB54 00-7HL	200.-	10
		Blue	■ 3SB54 00-7HF	645.-	10
		White†	3SB54 00-7HG	200.-	10
		Yellow	3SB54 00-7HD	200.-	10

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

	Voltage	Colour	Type Ref.	Unit LP ₹	Std Pkg (nos.)
	24 V AC/DC	Red	3SB54 00-8CC	340.-	10
		Green	3SB54 00-8CE	340.-	10
		Blue	3SB54 00-8CF	340.-	10
		Yellow	3SB54 00-8CD	340.-	10
	110 V AC/DC	Red	3SB54 00-8FC	420.-	10
		Green	3SB54 00-8FE	420.-	10
		Blue	3SB54 00-8FF	420.-	10
		Yellow	3SB54 00-8FD	420.-	10
	240 V AC 50/60 Hz	Red	3SB54 00-8SC	505.-	10
		Green	3SB54 00-8SE	505.-	10
		Blue	3SB54 00-8SF	505.-	10
		Yellow	3SB54 00-8SD	505.-	10

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

	Voltage	Type Ref.	Unit LP ₹	Std Pkg (nos.)
	24 V AC/DC (24 V lamp)	■ 3SB54 00-6CC	115.-	10
	110 V AC/DC (130 V lamp)	■ 3SB54 00-6FH	115.-	10
	230V AC/DC (130 V lamp)	■ 3SB54 00-6LH	115.-	10

@ Use of bridge rectified DC source (filtered O/P) recommended

# With voltage reducer

\*\* 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 LP ₹	Std Pkg (nos.)
Opaque actuator (with holder for contact block)				
	Normal	Red ■ 3SB50 00-0AC01	65.-	10
		Green ■ 3SB50 00-0AE01		
		Blue ■ 3SB50 00-0AF01		
		White ■ 3SB50 00-0AG01		
		Yellow ■ 3SB50 00-0AD01		
		Black ■ 3SB50 00-0AB01		
	Raised	Red ■ 3SB50 00-0LC01	75.-	10
		Green ■ 3SB50 00-0LE01		
		Blue ■ 3SB50 00-0LF01		
		White ■ 3SB50 00-0LG01		
		Yellow ■ 3SB50 00-0LD01		
		Black ■ 3SB50 00-0LB01		
Illuminated actuator (with holder for contact block)				
	Normal	Red ■ 3SB50 01-0AC01-0PQ0	90.-	10
		Green ■ 3SB50 01-0AE01-0PQ0		
		Amber ■ 3SB50 01-0AL01-0PQ0		
		Blue ■ 3SB50 01-0AF01-0PQ0		
		White ■ 3SB50 01-0AG01-0PQ0		
		Yellow ■ 3SB50 01-0AD01-0PQ0		
	Raised	Clear ■ 3SB50 01-0AH01-0PQ0	95.-	10
		Red ■ 3SB52 18-0LC01-0PQ0		
		Green ■ 3SB52 18-0LE01-0PQ0		
		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 LP ₹	Std Pkg (nos.)
2 position opaque selector actuator (with holder for contact block)					
	Maintained	Black	■ 3SB50 00-2AB01	225.-	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	230.-	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	220.-	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	■ 3SB5 001-2BD01		
		Clear	■ 3SB50 01-2BH01		
3 position illuminated selector actuator (with holder for contact block)					
	Maintained	Red	■ 3SB50 01-2DC01	235.-	10
		Green	■ 3SB50 01-2DE01		
		Blue	■ 3SB50 01-2DF01		
		Yellow	■ 3SB50 01-2DD01		
		Clear	■ 3SB50 01-2DH01		
	Momentary	Red	■ 3SB50 01-2EC01		
		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 LP ₹	Std Pkg (nos.)
Contact blocks for rear mounting (for panel mounting)				
	1 NO	■ 3SB54 00-0B	80.-	10
	1 NC	■ 3SB54 00-0C	80.-	10
	1 NO + 1 NC	■ 3SB54 00-0A	155.-	10
	2 NO	■ 3SB54 00-0E	155.-	10
	2 NC	■ 3SB54 00-0F	155.-	10

### Mushroom Actuators (with plastic front ring)



Description	Colour	Type Ref.	Unit LP ₹	Std Pkg (nos.)
Mushroom actuator (40 mm ø) (with holder for contact block)				
momentary	Black	3SB50 00-1NB01	130.-	10
	Red	■ 3SB50 00-1NC01		
push to trip, turn to release	Black	■ 3SB50 00-1CB01	165.-	10













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



Description	Colour	Type Ref.	Unit LP ₹	Std Pkg (nos.)
Mushroom actuator (40 mm ø) push to trip, turn to release with 1NC	Red	■ 3SB52 03-0UC01	250.-	10
Mushroom actuator (40 mm ø) push to trip, turn to release	Red	3SB50 00-0UC01	175.-	10
Mushroom actuator (40 mm ø) push to trip, key to release	Red	3SB50 00-0TC01	1060.-	10




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

Description	Colour	Type Ref.	Unit LP ₹	Std Pkg (nos.)
2 position key actuator (with holder for contact block)	Maintained	 ■ 3SB50 00-4AC01	310.-	10
		 3SB50 00-4AA01	310.-	10
		 3SB50 00-4AB01	310.-	10
		 3SB50 00-4TA01	310.-	10
	Momentary	 3SB50 00-4TC01	310.-	10
		 3SB50 00-4HA01	405.-	10
		 3SB50 00-4HC01	405.-	10
		 3SB50 00-4HB01	405.-	10
3 position key actuator (with holder for contact block)	Maintained	 3SB50 00-4JA01	405.-	10
		 3SB50 00-4JA01	405.-	10
	Momentary	 3SB50 00-4JA01	405.-	10
		 3SB50 00-4JA01	405.-	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 LP ₹	Std Pkg (nos.)
	Complete actuator with holder for contact block			
	Opaque with 1NO & 1NC	3SB52 01-7EC01	295.-	10
	Illuminated with 1NO & 1NC	3SB52 34-7EC01		10
	Modular actuator with holder for contact block			
	Opaque	3SB50 00-7EC01	135.-	10
Illuminated	3SB50 01-7EC01	10		

■ Stock items

## Push button Stations



No. of control points	Description	Type Ref.	Unit LP ₹	Std Pkg (nos.)
<b>Metal enclosure : Aluminum Die Cast</b>				
1	Normal opaque push button - Green with 1NO contact block, "START"	■ 3SB58 01-8AA3	915.-	1
1	Red mushroom momentary actuator, with 1NC contact block, "STOP"	■ 3SB58 01-8AN3	995.-	1
1	Red maintained mushroom actuator, turn to release, with 1NC contact block, "E-STOP"	■ 3SB58 01-8AM3	1310.-	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	1135.-	1
2	Normal opaque push button - Green with 1NO contact block, "START" + Red mushroom-maintained with 1NC contact block, "STOP"	■ 3SB58 02-8AE3	1440.-	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	1620.-	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	1555.-	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	2025.-	1
<b>Plastic Enclosure</b>				
1	Normal opaque push button - Green with 1NO contact block, "START"	3SB58 01-7AA3	545.-	1
1	Red mushroom momentary actuator, with 1NC contact block, "STOP"	3SB58 01-7AN3	545.-	1
1	Red maintained mushroom actuator, turn to release, with 1NC contact block, "E-STOP"	3SB58 01-7AM3	585.-	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	630.-	1
2	Normal opaque push button - Green with 1NO contact block, "START" + Red mushroom-maintained with 1NC contact block, "STOP"	3SB58 02-7AE3	730.-	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	810.-	1

### Pendant mounting : Plastic

No. of control points	Description	Type Ref.	Unit LP ₹	Std Pkg (nos.)
1	Normal opaque push button - Green with 1NO contact block, "START"	3SB58 21-7AA3	1175.-	1
2	Normal opaque push button - Green with 1NO contact block, "START" + Normal opaque push button - Red with 1NC contact block, "STOP"	3SB58 22-7AC3	1435.-	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"	3SB58 23-7AH3	1870.-	1

### Accessories for push button stations

Description	Type Ref.	Unit LP ₹	Std Pkg (nos.)
<b>Plastic Enclosures</b>			
1 way, Grey	3SB58 01-0AC3	390.-	1
2 way, Grey	3SB58 02-0AC3	330.-	1
3 way, Grey	3SB58 03-0AC3	345.-	1
4 way, Grey	3SB58 04-0AC3	755.-	1
6 way, Grey	3SB58 06-0AC3	1045.-	1
1 way, Yellow	3SB58 01-0AD3	390.-	1
<b>Metal Enclosures</b>			
1 way	3SB58 01-4AC3	775.-	1
2 way	3SB58 02-4AC3	840.-	1
3 way	3SB58 03-4AC3	1180.-	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	115.-	10
Lamp Holder with Lamp 230V AC	3SB54 20-2PL0	115.-	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	165.-	10
<b>Blanking plug</b>			
Blanking plug	3SB59 12-0BC	40.-	10

### ■ Stock items



## Spares and Accessories

### Spares for Push button actuators

Description		Colour	Type Ref.	Unit LP ₹	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
Spare coloured discs for illuminated push button actuator	Raised	Red	3SB59 10-0DC	15.-	10
		Green	3SB59 10-0DE		10
		Amber	3SB59 10-0DR		10
		Blue	3SB59 10-0DF		10
		White	3SB59 10-0DG		10
		Yellow	3SB59 10-0DD		10
		Clear	3SB59 10-0DH		10
Plastic front ring			3SB59 11-1BA	15.-	10
Plastic holder with screws			3SB59 12-0BA	30.-	10

### Spares for indicating lamps

Description		Type Ref.	Unit LP ₹	Std Pkg (nos.)
Lens for Indicating lamp	Red	3SB59 10-1PC	30.-	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	30.-	10
	130V/2.5W	3SB59 02-6D		10
BA9s LED Lamp 24V AC/DC	Red	3SB59 02-3FK	85.-	10
	Green	3SB59 02-3GK	85.-	10
	Blue	3SB59 02-3JK	265.-	10
	Yellow	3SB59 02-3HK	85.-	10
Lens for illuminated twin push button	White	3SB59 12-0BB	15.-	10
Tool for fitting actuators on metal enclosures		3SB59 02-2BX	1245.-	1

### Accessories

Description		Type Ref.	Unit LP ₹	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	25.-	10
	Raised	3SB59 02-0AN		
Metallic holder for front connection actuators (when used outside 3SB508 stations)		3SB59 11-1AA	40.-	10



■ Stock items

LP - List Price



## 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	445.-	10
	Snap action		■ 3SE3 020-1A	505.-	10
	Overlapping		3SE3 020-3A	445.-	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	■ 3SE3 023-0A	785.-	10
		2NO + 1NC	3SE3 023-1A		
	Overlapping	1NO + 2NC 2NO + 1NC	3SE3 023-2A 3SE3 023-3A	785.-	10

## 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	870.-	1
	Snap action		■ 3SE3 100-1B		
	Overlapping		3SE3 100-3B		
Normal roller lever	Normal	1NO + 1NC	■ 3SE3 100-0E	930.-	1
	Snap action		■ 3SE3 100-1E		
	Overlapping		3SE3 100-3E		
Angular roller lever	Normal	1NO + 1NC	3SE3 100-0F	925.-	1
	Snap action		3SE3 100-1F		
	Overlapping		3SE3 100-3F		
Crank lever	Normal	1NO + 1NC	3SE3 100-0G	1390.-	1
	Snap action		3SE3 100-1G		
	Overlapping		3SE3 100-3G		
Over travel plunger	Normal	1NO + 1NC	3SE3 100-0C	1080.-	1
	Snap action		3SE3 100-1C		
	Overlapping		3SE3 100-3C		
Roller plunger	Normal	1NO + 1NC	3SE3 100-0D	1070.-	1
	Snap action		3SE3 100-1D		
	Overlapping		3SE3 100-3D		
Adjustable length roller crank	Normal	1NO + 1NC	3SE3 100-0U	1435.-	1
	Snap action		3SE3 100-1U		
	Overlapping		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	830.-	1
	Snap action		3SE3 120-1B		
Normal roller lever	Normal	1NO + 1NC	3SE3 120-0E	930.-	1
	Snap action		3SE3 120-1E		
Angular roller lever	Normal	1NO + 1NC	3SE3 120-0F	875.-	1
	Snap action		3SE3 120-1F		
Crank lever	Normal	1NO + 1NC	3SE3 120-0G	1310.-	1
	Snap action		3SE3 120-1G		
Over travel plunger	Normal	1NO + 1NC	3SE3 120-0C	950.-	1
	Snap action		3SE3 120-1C		
Roller plunger	Normal	1NO + 1NC	3SE3 120-0D	1190.-	1
	Snap action		3SE3 120-1D		
Adjustable length roller crank	Normal	1NO + 1NC	3SE3 120-0U	1325.-	1
	Snap action		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 3SE3 303-1B	1010.-	5
	Snap action		3SE3 404-0B 3SE3 404-1B		
Normal roller lever	Normal	1NO + 2NC 2NO + 1NC	3SE3 303-0E 3SE3 303-1E	1070.-	5
	Snap action		3SE3 404-0E 3SE3 404-1E		
Angular roller lever	Normal	1NO + 2NC 2NO + 1NC	3SE3 303-0F 3SE3 303-1F	1180.-	5
	Snap action		3SE3 404-0F 3SE3 404-1F		

■ Stock items

Please order in multiples of standard packing.

MRP - Maximum Retail Price



## Accessories for limit switches

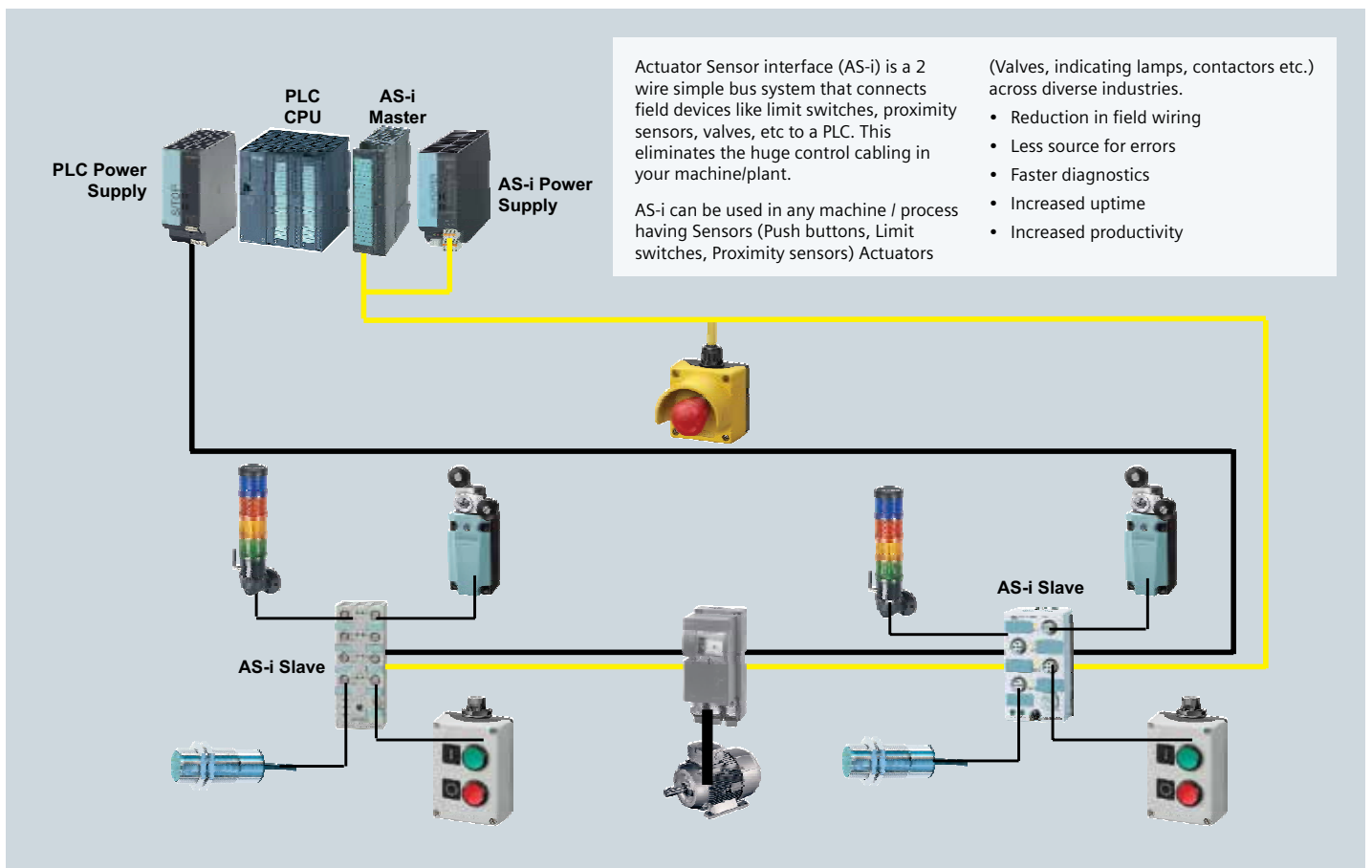
### Spares for 3SE3 100 and 3SE3 120 – actuators

Actuator type	For limit switch type	Type	Unit MRP ₹	Std. pkg. (nos.)
Push rod	3SE3 ....B	3SX3 100	395.-	5
Normal roller lever	3SE3 ....E	3SX3 102	440.-	5
Angular roller lever	3SE3 ....F	3SX3 104	450.-	5
Crank lever	3SE3 ....G	3SX3 110	265.-	5
Over travel plunger	3SE3 ....C	3SX3 106	450.-	5
Roller plunger	3SE3 ....D	3SX3 107	500.-	5
Adjustable roller crank lever	3SE3 ....U	3SX3 114	265.-	5
Operating head	3SE3 ....U 3SE3 ....G	3SX3 120	440.-	5

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

Contact arrangement	Type	Unit MRP ₹	Std. pkg. (nos.)
Normal, 1NO + 1NC	3SE3 000-0A	465.-	10
Snap action, 1NO + 1NC	■ 3SE3 000-1A	505.-	10
Overlapping, 1NO + 1NC	3SE3 000-3A	465.-	10

## Actuator-Sensor interface (AS-i)



■ Stock items

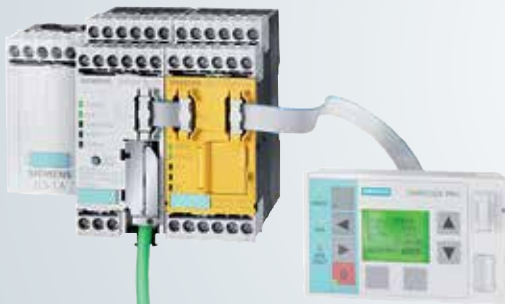
Please order in multiples of standard packing.

MRP - Maximum Retail Price

LP - List Price

Siemens Ltd. LV SGR - Motor Control Products Price List Eff. 01.10.2015 71

# SIEMENS



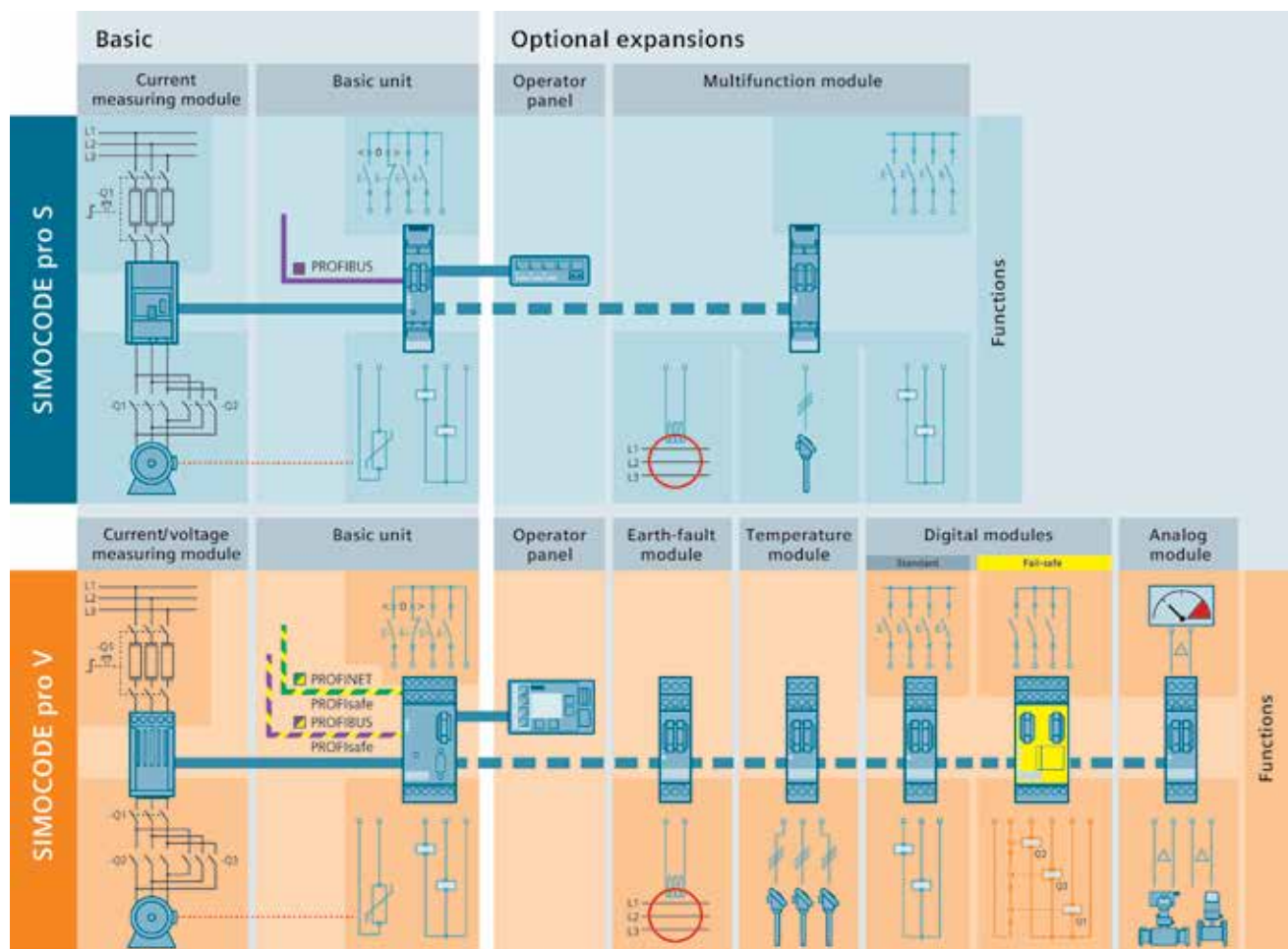
## SIMOCODE pro: Flexible, open and safe

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### The made-to-measure motor management system

- Motor protection, monitoring and control in a single system
- Fail-safe disconnection of motors
- Detailed operating, service and diagnostics data
- Open communication via PROFIBUS / PROFINET and OPC UA

Scan the  
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information



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

**Basic Unit**

Description	MLFB
Pro S on Profibus communication with 110-240VAC/DC control	3UF7020-1AU01-0
Pro S on Profibus communication with 24VDC control	3UF7020-1AB01-0
Pro V on Profibus communication with 110-240VAC/DC control	3UF7010-1AU00-0
Pro V on Profibus communication with 24VDC control	3UF7010-1AB00-0
Pro C on Profibus communication with 110-240VAC/DC control	3UF7000-1AU00-0
Pro C on Profibus communication with 24VDC control	3UF7000-1AB00-0
Pro V PN on Profinet communication with 110-240VAC/DC control	3UF7011-1AU00-0
Pro V PN on Profinet communication with 24VDC control	3UF7011-1AB00-0
Pro V PN on Modbus RTU communication with 110-240VAC/DC control	3UF7012-1AU00-0
Pro V PN on Modbus RTU communication with 24VDC control	3UF7012-1AB00-0

**Current Measuring Module**

Description	MLFB
0.3 to 3A	3UF7100-1AA00-0
2.4 to 25A	3UF7101-1AA00-0
10 to 100A	3UF7102-1AA00-0
20 to 200A	3UF7103-1AA00-0
20 to 200A (Busbar Connection)	3UF7103-1BA00-0
63 to 630A (Busbar Connection)	3UF7104-1BA00-0

Prices available on request

**Connecting Cable**

Description	MLFB
Side by Side (0.025m flat)	3UF7930-0AA00-0
Length 0.1m (flat)	3UF7931-0AA00-0
Length 0.3m (flat)	3UF7935-0AA00-0
Length 0.5m (flat)	3UF7932-0AA00-0
Length 0.5m (round)	3UF7932-0BA00-0
Length 1m (round)	3UF7937-0BA00-0
Length 2.5m (round)	3UF7933-0BA00-0

**Operator Panel (Optional)**

Description	MLFB
Operator Panel (for Pro S)	3UF7200-1AA01-0
Operator Panel (for Pro C, Pro V & Pro V PN)	3UF7200-1AA00-0
Operator Panel with Display (for Pro V and Pro V PN)	3UF7210-1AA00-0

**Configuration Software**

Description	MLFB
SIMOCODE ES Premium Package - Floating License	3ZS1312-6CC10-0YA5
SIMOCODE ES V13 (TIA PORTAL) Premium Package - Floating License	3ZS1322-6CC11-0YA5

**Accessories**

Description	MLFB
PC Cable for PC/PG communication - USB connection	3UF7941-0AA00-0
Memory Module for pro S, pro C & pro V on Profibus	3UF7900-0AA00-0
Memory Module for pro V PN on Profinet	3UF7901-0AA00-0
Addressing Plug for pro S, pro C & pro V on Profibus	3UF7910-0AA00-0
Door Adaptor	3UF7920-0AA00-0





## Safety relays and systems



With the SIRIUS 3SK1 safety relays every simple safety application can be optimally implemented, both technically and economically, whether it is EMERGENCY STOP, two-hand operation consoles, light arrays, laser scanners or protection of persons at presses and punching machines.

SIRIUS 3SK1 safety relays comply to the most stringent requirements of IEC 61508 or IEC 62061 (SIL 3) and EN ISO 13849-1 (PL e) and therefore the latest safety standards.

for more details visit us at: [siemens.com/safety-relays](http://siemens.com/safety-relays)

Relay enable circuit	Semiconductor enable circuit	Output Contacts				Rated control supply voltage	Unit LP ₹	MOQ
		EC	SC (signalling)	EC (td)	Adjustable Time Delay (td)			
SIRIUS 3SK1 standard basic units								
3SK1 111-1AB30		3	1	--	--	24V AC/DC	16320.-	1
3SK1 111-1AW20		3	1	--	--	110-240V AC/DC	16320.-	1
	3SK1112-1BB40	2	1	--	--	24V DC	15000.-	1
SIRIUS 3SK1 advanced basic units								
3SK1 121-1CB41		2	--	2	0.05...3 Sec	24V DC	25000.-	1
3SK1 121-1CB42		2	--	2	0.5...30 Sec	24V DC	25000.-	1
3SK1 121-1CB44		2	--	2	5.0...300Sec	24V DC	25000.-	1
	3SK1 122-1CB41	2	--	2	0.05...3 Sec	24V DC	15000.-	1
	3SK1 122-1CB42	2	--	2	0.5...30 Sec	24V DC	15000.-	1
	3SK1 122-1CB44	2	--	2	5.0...300Sec	24V DC	15000.-	1
SIRIUS 3SK1 Output expansion module								
3SK1 211-1BB00		4	1			24V AC	14700.-	1
3SK1 211-1BB40		4	1			24V DC	14700.-	1
3SK1 211-1BW20		4	1			110-240V AC/DC	14700.-	1

Note: EC = enable Circuit(s), SC = signaling circuit(s), td = delayed

**Reliable**  
switching and  
protection  
of IE3 motors  
*at any time*



IE1



IE2



**Are you IE3 ready?**  
[siemens.com/ie3ready](http://siemens.com/ie3ready)

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

Suitable for IE3 motors

- The selection is valid only for complete Siemens combinations i.e. MPCB + 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.
- Tested Type 2 combinations
- Low LCC = Low life cycle cost

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

SL motor		Circuit breaker		Contactor	
kW 415V, 3ph, 50/60 Hz	I <sub>L</sub> Amp	Type	Amp	Type	Amp
0.37	1.1	3RV2011-0KA10	1.25	3RT2015-1AP01	7
0.55	1.5	3RV2011-1AA10	1.6	3RT2015-1AP01	7
0.75	1.9	3RV2011-1CA10	2.5	3RT2015-1AP01	7
1.1	2.7	3RV2011-1DA10	3.2	3RT2015-1AP01	7
1.5	3.6	3RV2011-1FA10	5	3RT2024-1AP00	12
2.2	5	3RV2011-1GA10	6.3	3RT2024-1AP00	12
3	6.5	3RV2011-1HA10	8	3RT2024-1AP00	12
4	8.5	3RV2011-1JA10	10	3RT2024-1AP00	12
5.5	11.5	3RV2011-1KA10	12.5	3RT2024-1AP00	12
7.5	15.5	3RV2021-4BA10	20	3RT2027-1AP00	32
11	22	3RV2021-4DA10	25	3RT2027-1AP00	32
15	29	3RV2021-4EA10	32	3RT2027-1AP00	32

### Star-Delta feeder, for Low LCC

SL motor		Circuit breaker		Contactor line/delta		Contactor star		Bi-relay	
kW 415V, 3ph, 50/60 Hz	I <sub>L</sub> Amp	Type	Amp	Type	Amp	Type	Amp	Type	Amp
5.5	11.5	3RV2321-4AC10	16	3RT2026-1AP00	25	3RT2015-1AP01	7	3RU2126-1HB0	5.5-8
7.5	15.5	3RV2321-4AC10	16	3RT2026-1AP00	25	3RT2015-1AP01	7	3RU2126-1JB0	7-10
11	22	3RV2321-4DC10	25	3RT2027-1AP00	32	3RT2024-1AP00	12	3RU2126-4AB0	11-16
15	29	3RV2321-4EC10	32	3RT2027-1AP00	32	3RT2024-1AP00	12	3RU2126-4BB0	14-20
18.5	35	3RV1331-4FC10	40	3RT1035-1AP00	40	3RT1024-1AP00	12	3RU1136-4DB0	18-25
22	41	3RV1331-4GC10	45	3RT1036-1AP00	50	3RT1026-1AP00	25	3RU1136-4EB0	22-32
30	55	3RV1341-4JC10	63	3RT1044-1AP00	65	3RT1026-1AP00	25	3RU1146-4FB0	28-40
37	66	3RV1341-4KC10	75	3RT1044-1AP00	65	3RT1034-1AP00	32	3RU1146-4HB0	36-50
45	80	3RV1341-4LC10	90	3RT1045-1AP00	80	3RT1034-1AP00	32	3RU1146-4JB0	45-63

Contact the nearest Siemens Partner for higher ratings



## 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.
- Tested Type 2 combinations
- 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)	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	115	3RT10 54-6LA06	115	3RU21 56-5CB10-8K	90 - 125	3RP15
132	230	133	3KL832	250	3NA71440RC	250	3RT10 55-6LA06	150	3RT10 54-6LA06	115	3RU21 56-5DB10-8K	110 - 160	3RP15
160	280	162	3KL833	315	3NA72520RC	315	3RT10 56-6LA06	185	3RT10 54-6LA06	115	3RU21 56-5EB10-8K	140 - 200	3RP15
200	350	202	3KL834	400	3NA72600RC	400	3RT10 64-6LA06	225	3RT10 56-6LA06	185	3RU21 66-5FB10-8K	180 - 250	3RP15
250	430	248	3KL841	500	3NA33650RC	500	3RT10 65-6LA06	265	3RT10 65-6LA06	265	3RU21 66-5GB10-8K	220 - 320	3RP15

## Fuseless selection type 2, I<sub>q</sub> = 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 ≤ 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.
- Tested Type 2 combinations
- 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 + 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	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. 76 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. 78 for co-ordination chart.

## Fuseless selection type 2, I<sub>q</sub> = 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.
- Recommended selection.

### 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

<sup>^</sup> 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

<sup>^</sup> Breaking capacity can be increased to 50KA using current limiter

## Available till stocks last

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

Size	Operational current le AC-15 at 230V A	Contacts NO	Contacts NC	AC Coil <sup>\$</sup>			DC Coil <sup>@</sup>		
				Type	Unit LP ₹	Std. pkg. (nos.)	Type	Unit LP ₹	Std. pkg. (nos.)
S00	6	4	-	3RH11 40-1A..0	1385.-	1	3RH11 40-1B..0	1895.-	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 le upto 415V A	Motor rating at 415V, 50Hz kW	Auxiliary contacts	AC Coil <sup>\$</sup>			DC Coil <sup>@</sup>		
				Type	Unit LP ₹	Std. pkg. (nos.)	Type	Unit LP ₹	Std. pkg. (nos.)
S00	7	3	1NO	3RT10 15-1A..1	1180.-	1	3RT10 15-1B..1	1735.-	1
			1NC	3RT10 15-1A..2		1	3RT10 15-1B..2		1
	9	4	1NO	3RT10 16-1A..1	1250.-	1	3RT10 16-1B..1	1810.-	1
			1NC	3RT10 16-1A..2		1	3RT10 16-1B..2		1
	12	5.5	1NO	3RT10 17-1A..1	1400.-	1	3RT10 17-1B..1	2105.-	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
Coil voltage 50/60 Hz	24	110	230

#### @ 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 LP ₹	Std. pkg. (nos.)
NO	NC	#NO	#NC			

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

Size S00

2	-	-	-	3RH19 11-1FA20	335.-	1
1	1	-	-	3RH19 11-1FA11		1
-	2	-	-	3RH19 11-1FA02		1
4	-	-	-	3RH19 11-1FA40	610.-	1
3	1	-	-	3RH19 11-1FA31		1
2	2	-	-	3RH19 11-1FA22		1
-	-	2	2	3RH19 11-1FC22	920.-	1
1	1	1	1	3RH19 11-1FB22		1

1 pole auxiliary switch blocks. Cable entry from above

1	-	-	-	3RH19 11-1AA10	235.-	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 le 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 LP ₹	Std. pkg. (nos.)	Rated control supply voltage U <sub>s</sub> V DC	Type	Unit LP ₹	Std. pkg. (nos.)
6	4	-	24	3RH14 40-1AB00	4530.-	1	24	3RH14 40-1BB40	5920.-	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 1.25x $U_s$

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

Size	Surge Supressors	Rated operational current I <sub>e</sub> AC-15/AC-14 at 230 V A	Auxillary contacts		Type	Unit LP ₹	Std. pkg. (nos.)
			NO	NC			
S00	Built in Varistor	6	4	-	3RH11 40-1KB40	2260.-	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 1.25x $U_s$

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 LP ₹	Std. pkg. (nos.)
				NO	NC			
S00	Built in Varistors	7	3	1	-	3RT10 15-1KB41	2115.-	1
				-	1	3RT10 15-1KB42		1
		9	4	1	-	3RT10 16-1KB41	2305.-	1
				-	1	3RT10 16-1KB42		1
		12	5.5	1	-	3RT10 17-1KB41	2410.-	1
				-	1	3RT10 17-1KB42		1
	Built in Diode	7	3	1	-	3RT10 15-1JB41	2115.-	1
				-	1	3RT10 15-1JB42		1
		9	4	1	-	3RT10 16-1JB41	2305.-	1
				-	1	3RT10 16-1JB42		1
		12	5.5	1	-	3RT10 17-1JB41	2410.-	1
				-	1	3RT10 17-1JB42		1

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

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 LP ₹	Std. pkg. (nos.)
				NO	NC			
S0	Varistor mounted	12	5.5	-	-	3RT10 24-1KB40	2740.-	1
		17	7.5	-	-	3RT10 25-1KB40	3195.-	1
		25	11	-	-	3RT10 26-1KB40	5380.-	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 LP ₹	Std. pkg. (nos.)	Type	Unit LP ₹	Std. pkg. (nos.)
S0	9	4	-	3RT10 23-1A..0	1070.-	1	3RT10 23-1B..0	1940.-	1
	12	5.5	-	3RT10 24-1A..0	1225.-	1	3RT10 24-1B..0	2120.-	1
	17	7.5	-	3RT10 25-1A..0	1445.-	1	3RT10 25-1B..0	2570.-	1
	25	11	-	3RT10 26-1A..0	1930.-	1	3RT10 26-1B..0	3435.-	1
S2	32	15	-	3RT10 34-1A..0	4220.-	1	3RT10 34-1B..0	7905.-	1
	40	18.5	-	3RT10 35-1A..0	6335.-	1	3RT10 35-1B..0	8640.-	1

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

#### <sup>\$</sup> AC coil voltage

Coil code	C2	G2	L2
Coil voltage (50/60 Hz)	24	110	230

#### <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 LP ₹	Std. pkg. (nos.)	Type	Unit LP ₹	Std. pkg. (nos.)
S00	18	3RT15 16-1A..0	1795.-	1	3RT15 16-1B..0	2340.-	1
	22	3RT15 17-1A..0	2105.-	1	3RT15 17-1B..0	3455.-	1
S0	40	3RT15 26-1A..0	3560.-	1	3RT15 26-1B..0	6440.-	1

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

Code	B0	F0	P0
Coil voltage (V) (50/60 Hz)	24	110	230

<sup>4)</sup> DC coil voltage

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

<sup>4)</sup> Please refer page 35 for auxiliary contact blocks

### 4 pole contactors - 3RT13

For incommutator / 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 LP ₹	Std. pkg. (nos.)
00	18	3RT13 16-1A..0	1590.-	1
00	22	3RT13 17-1A..0	1735.-	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 LP ₹	Std. pkg. (nos.)	Rated control supply voltage U <sub>s</sub> V DC	Type	Unit LP ₹	Std. pkg. (nos.)
S00	7	3	110	3RA13 15-8XB30-1AF0	3585.-	1	24	3RA13 15-8XB30-1BB4	4660.-	1
			230	3RA13 15-8XB30-1AP0		1				
	9	4	110	3RA13 16-8XB30-1AF0	3775.-	1	24	3RA13 16-8XB30-1BB4	5045.-	1
			230	3RA13 16-8XB30-1AP0		1				
	12	5.5	110	3RA13 17-8XB30-1AF0	3960.-	1				
			230	3RA13 17-8XB30-1AP0		1				
S0	12	5.5	110	3RA13 24-8XB30-1AG2	4245.-	1	24	3RA13 24-8XB30-1BB4	5630.-	1
			230	3RA13 24-8XB30-1AL2		1				
	17	7.5	110	3RA13 25-8XB30-1AG2	4805.-	1	24	3RA13 25-8XB30-1BB4	6655.-	1
			230	3RA13 25-8XB30-1AL2		1				
	25	11	110	3RA13 26-8XB30-1AG2	5645.-	1	24	3RA13 26-8XB30-1BB4	9135.-	1
			230	3RA13 26-8XB30-1AL2		1				
S2	32	15	110	3RA13 34-8XB30-1AG2	11875.-	1	24	3RA13 34-8XB30-1BB4	18630.-	1
			230	3RA13 34-8XB30-1AL2		1				
	40	18.5	110	3RA13 35-8XB30-1AG2	16775.-	1	24	3RA13 35-8XB30-1BB4	22245.-	1
			230	3RA13 35-8XB30-1AL2		1				

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 LP ₹	Std. pkg. (nos.)	Rated control supply voltage U <sub>s</sub> V DC	Type	Unit LP ₹	Std. pkg. (nos.)
S00-S00-S00	12	5.5	230	3RA14 15-8XB31-1AP0	7355.-	1	24	3RA14 15-8XB31-1BB4	10075.-	1
	17	7.5	230	3RA14 16-8XB31-1AP0	7915.-	1	24	3RA14 16-8XB31-1BB4	10465.-	1
S0-S0-S0	25	11	230	3RA14 23-8XC21-1AL2	8295.-	1	24	3RA14 23-8XC21-1BB4	10650.-	1
	32/40	15/18.5	230	3RA14 25-8XC21-1AL2	10175.-	1	24	3RA14 25-8XC21-1BB4	15980.-	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 LP ₹	Std. pkg. (nos.)
AC/DC	S00	S00	3RA19 11-1AA00	365.-	1
	S00	S0	3RA19 21-1DA00	340.-	1
AC	S0	S0	3RA19 21-1AA00	340.-	1
DC	S0	S0	3RA19 21-1BA00	340.-	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 LP ₹	Std. pkg. (nos.)
AC/DC	S00	S00	3RA19 11-1AA00	365.-	1
	S00	S0	3RA19 21-1DA00	340.-	1
AC	S0	S0	3RA19 21-1AA00	340.-	1
DC	S0	S0	3RA19 21-1BA00	340.-	1

#### Busbar Adaptor

Size of MPCB	Size of contactor	Version of busbar adaptor	Busbar center to center clearance mm	Type of busbar adaptor	Unit LP ₹	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 LP ₹	Std. pkg. (nos.)
S00, S0	S00, S0	45 mm wide, 182 mm long for busbars	40	8US10 50-5AM00	2920.-	1
			60	8US12 50-5AM00	2730.-	1
S0	S0	55 mm wide, 182 mm long for busbars	40	8US10 60-5AM00	3330.-	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 LP ₹	Std. pkg. (nos.)
AC/DC	S00	S00	3RA19 11-1AA00	365.-	1
AC	S0	S0	3RA19 21-1AA00	340.-	1
DC	S0	S0	3RA19 21-1BA00	340.-	1

#### Standard mounting rail adaptor

Size of MPCB	Size of contactor	Type	Unit LP ₹	Std. pkg. (nos.)
S00, S0	S00, S0	3RA19 22-1AA00	880.-	1

#### Assembly kit

Size of MPCB	Size of contactor	Assembly kit consists of wiring kit, standard mounting rail adapter, side module	Unit LP ₹	Std. pkg. (nos.)
S0	S0	3RA19 23-1B	2115.-	1

## Capacitor duty contactors - 3RT16

For switching capacitor banks with AC coils

Capacitor kVAR 415V, 3ph, 50Hz	Aux. contacts	AC Coil voltage	Type	Unit LP ₹	Std. pkg. (nos.)
28 - 50 kVAR	1 NO	110V	3RT16 47-1AF01	18520.-	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 LP ₹	Std. pkg. (nos.)
	Rated control supply voltage (U <sub>s</sub> )				
	V AC	V DC			
Varistors (with LED)	24 ... 48	12 ... 24	3RT19 16-1JJ00	550.-	1
	48 ... 127	24 ... 70	3RT19 16-1JK00		1
	127 ... 240	70 ... 150	3RT19 16-1JL00		1
	–	150 ... 250	3RT19 16-1JP00		1
RC Elements	24 ... 48	24 ... 70	3RT19 16-1CB00		1
	48 ... 127	70 ... 150	3RT19 16-1CC00		1
	127 ... 240	150 ... 250	3RT19 16-1CD00		1
Diode Assemblies	–	12 ... 250	3RT19 16-1EH00		1
Diode with LED	–	24 ... 70	3RT19 16-1LM00		1
Additional load module	180 ... 255	–	3RT19 16-1GA00		1

#### Sealable Covers

Size	Type	Unit LP* ₹	Std. pkg. (nos.)
S00	3RT19 16-4MA10	165.-	5

\* The LP 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 Sec	Type	Unit LP ₹	Std. pkg. (nos.)
<b>On-Delay</b> (Varistor integrated)	1NO + 1NC	24 AC/DC	0.05 ... 1	3RT19 16-2EJ11	1745.-	1
			0.5 ... 10	3RT19 16-2EJ21	1895.-	1
		24 ... 66 AC/DC	0.5 ... 10	3RT19 16-2CG21		1
		24 AC/DC	5 ... 100	3RT19 16-2EJ31	1745.-	1
			0.05 ... 1	3RT19 16-2EC11		1
			0.5 ... 10	3RT19 16-2EC21		1
		100 ... 127 AC	5 ... 100	3RT19 16-2EC31		1
			0.05 ... 1	3RT19 16-2ED11		1
			0.5 ... 10	3RT19 16-2ED21		1
			5 ... 100	3RT19 16-2ED31		1
<b>OFF-Delay</b> <u>without</u> auxiliary voltage (Varistor integrated)	1NO + 1NC	24 AC/DC	0.05 ... 1	3RT19 16-2FJ11	2075.-	1
			0.5 ... 10	3RT19 16-2FJ21		1
			5 ... 100	3RT19 16-2FJ31		1
		100 ... 127 AC/DC	0.05 ... 1	3RT19 16-2FK11		1
			0.5 ... 10	3RT19 16-2FK21		1
			5 ... 100	3RT19 16-2FK31		1
		200 ... 240 AC/DC	0.05 ... 1	3RT19 16-2FL11		1
			0.5 ... 10	3RT19 16-2FL21		1
			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	3RT19 16-2LJ21	1910.-	1
		100 ... 127 AC	0.5 ... 10	3RT19 16-2LC21		1
		200 ... 240 AC	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	3RT19 16-2GJ51		1
		100 ... 127 AC	1.5 ... 30	3RT19 16-2GC51		1
		200 ... 240 AC	1.5 ... 30	3RT19 16-2GD51		1

## Available till stocks last

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

Size	Current setting range A	3RB20 (Class 10)		3RB21 (Class 5 to 30 –Adj.)		3RB20 (Class 20)		Std. pkg. (nos.)
		Type	Unit LP ₹	Type	Unit LP ₹	Type	Unit LP ₹	
S00	0.1 to 0.4A	3RB20 16-1RB0	4030.-	3RB21 13-4RB0	8285.-	3RB20 16-2RB0	5045.-	1
	0.32 to 1.25A	3RB20 16-1NB0		3RB21 13-4NB0		3RB20 16-2NB0		1
	1 to 4A	3RB20 16-1PB0		3RB21 13-4PB0		3RB20 16-2PB0		1
	3 to 12A	3RB20 16-1SB0		3RB21 13-4SB0		3RB20 16-2SB0		1
S00	Accessory for sepearate mounting					3RB29 13-0AA1	515.-	1
S0	0.1 to 0.4A	3RB20 26-1RB0	4610.-	3RB21 23-4RB0	8670.-	3RB20 26-2RB0	5765.-	1
	0.32 to 1.25A	3RB20 26-1NB0		3RB21 23-4NB0		3RB20 26-2NB0		1
	1 to 4A	3RB20 26-1PB0		3RB21 23-4PB0		3RB20 26-2PB0		1
	3 to 12A	3RB20 26-1SB0		3RB21 23-4SB0		3RB20 26-2SB0		1
	6 to 25 A	3RB20 26-1QB0		3RB21 23-4QB0		3RB20 26-2QB0		1
S00	Accessory for sepearate mounting					3RB29 23-0AA1	515.-	1

### 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 LP ₹	Std. pkg. (nos.)
S00	0.04	0.11 ... 0.16	3RU11 16-0AB0	1720.-	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
S0	4	7 ... 10	3RU11 16-1JB0	2000.-	1
	5.5	9 ... 12	3RU11 16-1KB0		1
	0.75	1.8 ... 2.5	3RU11 26-1CB0		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	2010.-	1
	4	7 ... 10	3RU11 26-1JB0		1
	5.5	9 ... 12.5	3RU11 26-1KB0		1
	7.5	11 ... 16	3RU11 26-4AB0	2105.-	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 LP ₹	Std. pkg. (nos.)
S00	3RU19 16-3AA01	310.-	1
S0	3RU19 26-3AA01	355.-	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 LP ₹	Std. pkg. (nos.)
S00	0.16	0.11-0.16	3RV10 11-0AA10	3790.-	1
	0.2	0.14 ... 0.2	3RV1011-0BA10		
	0.25	0.18-0.25	3RV10 11-0CA10		
	0.32	0.22 ... 0.32	3RV1011-0DA10		
	0.4	0.28-0.4	3RV10 11-0EA10		
	0.5	0.35 ... 0.5	3RV1011-0FA10	4380.-	
	0.63	0.45-0.63	3RV10 11-0GA10	4280.-	
	0.8	0.55 ... 0.8	3RV1011-0HA10	4380.-	
	1	0.7-1	3RV10 11-0JA10	4280.-	
	1.25	0.9 ... 1.25	3RV1011-0KA10	4380.-	
	1.6	1.1-1.6	3RV10 11-1AA10	4280.-	
	2	1.4 ... 2	3RV1011-1BA10	4380.-	
	2.5	1.8-2.5	3RV10 11-1CA10	4280.-	
	3.2	2.2 ... 3.2	3RV1011-1DA10	4545.-	
	4	2.8-4	3RV10 11-1EA10		
	5	3.5 ... 5	3RV1011-1FA10		
	6.3	4.5-6.3	3RV10 11-1GA10		
	8	5.5 ... 8	3RV1011-1HA10	4860.-	
	10	7-10	3RV10 11-1JA10		
	12	9-12	3RV10 11-1KA10	5205.-	

#### 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 LP ₹	Type	Unit LP ₹	Type	Unit LP ₹	
S0	0.16	0.11 - 0.16	3RV10 21-0AA10	5535.-	3RV13 21-0AC10	5435.-	3RV11 21-0AA10	7205.-	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	6090.-	3RV13 21-0KC10	5765.-	3RV11 21-0KA10	7540.-	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	6695.-	3RV13 21-1HC10	6205.-	3RV11 21-1HA10	8155.-	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	7335.-	3RV13 21-4BC10	7135.-	3RV11 21-4BA10	9100.-	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 53.

## Equivalent chart: 3TF to 3RT

SICOP - 3TF				SIRIUS - 3RT			
Size	AC-3 rating 415V 50Hz	Bi-relay Type	Contacteur Type	Contacteur 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 Birelay 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.... <sup>†</sup>
7.5 - 10 kVAR	1 NO	3TF31 10-0W.... <sup>†</sup>
11 - 15 kVAR	–	3TF32 00-0W.... <sup>†</sup>
16 - 25 kVAR	–	3TF34 00-0W.... <sup>†</sup>

<sup>†</sup> 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

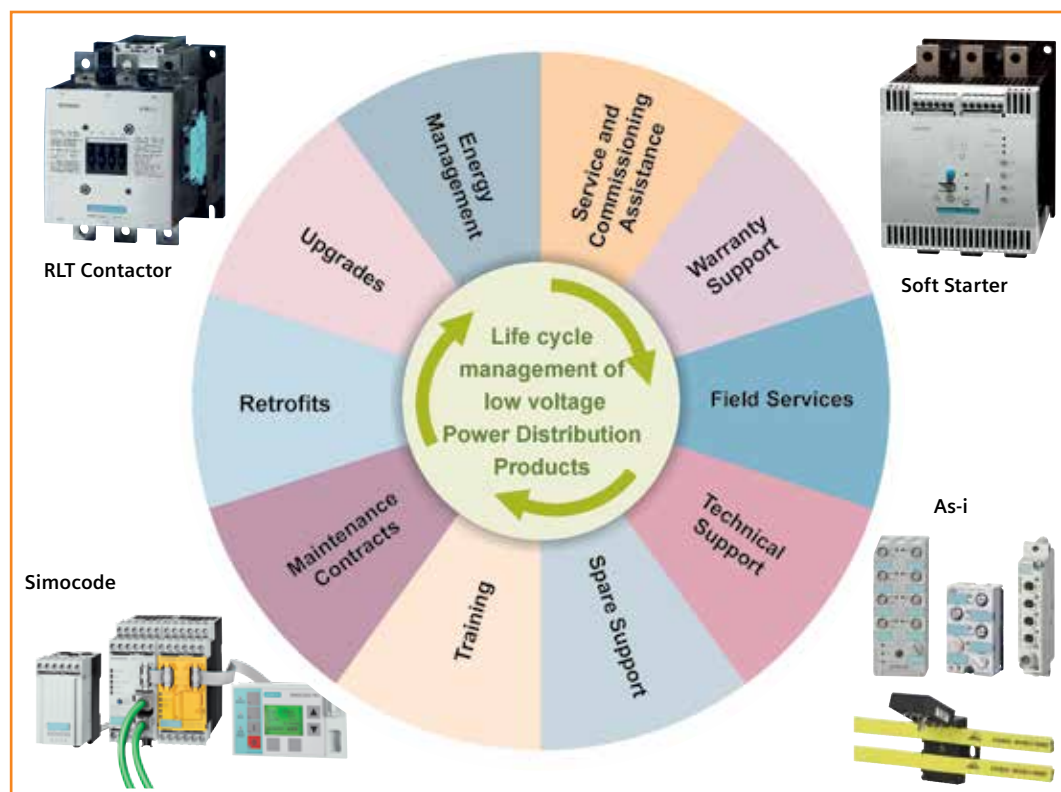
#### Spare SIREC pre-charge resistors

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

Siemens switchgear. Tried, tested, trusted.

## One point contact for your service needs

The comprehensive range of services from Siemens is sure to cover the needs of the most varied users. We offer structured services, designed to give you valuable support in every phase during the lifecycle of your low voltage products and systems – from warranty support to suitable retrofit solutions. Additionally we also provide Energy Management solutions and Technology upgrade solutions for your existing switchgear.



## SIEMENS low voltage switchboards 8PU & SIEPAN 8PU service offerings



- Annual Maintenance contract of SIEMENS LV Switchboards
- Preventive health check up & servicing
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- Conversion of existing conventional to intelligent MCC
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*Please get in touch with us for details*

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For information on prices of above products please refer to the valid low voltage power Distribution Products LP

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## Terms and conditions

### Maximum Retail Price / List Price

MRP/LPs are subject to revision without prior notice.

The company reserves the right to supply goods at its works or godown at its discretion.

The minimum order size for non-stock items (items not marked with ■) is 100 Nos. for each item or ₹ 100,000/- per item.

**Export control regulation - retention clause:** The fulfillment of the agreement on Siemens part is subject to the provision that this shall not be prevented by implements on the grounds of national and international legal requirements, in particular export control provision.

### Stock items

The normal stock items (indicated by ■) are subject to change without prior notice.

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### Note

- This supercedes all previous Price Lists
- MRP mentioned in this publication are max. recommended selling MRP.
- 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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Ask your nearest Siemens partners to include you in our mailing list.

Always make your purchases from our authorised dealers only. Details available with our sales office/territory managers.

## LIST OF SITRAIN - INDIA TRAINING CENTERS (including Training Service Providers, TSPs)

Title	Course Code	Days
<b>Training Programmes on Automation Products</b>		
SIMATIC S7-1200 with STEP7 V13	AS-TIA1200	4
SIMATIC S7-1500 with STEP7 V13	AS-TIA1500	5
SIMATIC S7-300 Basic with STEP7 V5.5	AS-ST300	8
SIMATIC S7-400 Basic with STEP7 V5.5	AS-ST400	8
SIMATIC S7-300/400 Advance with STEP7 V5.5	AS-ST300/400	6
Networking on Profibus/Profinet with STEP7 V5.5	AS-STNET	5
SIMATIC WinCC Basic V7	AS-STWINCCB	5
SIMATIC WinCC Advance V7	AS-STWINCCA	3
DCS: SIMATIC PCS 7 Basic	AS-STPCS7B	10
DCS: SIMATIC PCS 7 Advance	AS-STPCS7A	10
DCS: SIMATIC PCS 7 SERV(Troubleshooting/Maint)	AS-STPCS7S	5
SIMATIC Distributed (Machine Safety) course	AS-STSAFM	3
SIMATIC Fail-safe (Process Safety) course	AS-STSAFP	3
<b>Training Program on Drive Products</b>		
Basics AC DC Drive	DR-BDT	5
Basic Drive with MM4 Maintenance	DR-MM4	5
SIMOVERT Masterdrive Vector control	DR-MDVC	6
SIMOREG 6RA70	DR-DC70	6
SINAMICS DCM 6RA80	DR-DCM	6

Title	Course Code	Days
SINAMICS V90	DR-V90	3
SINAMICS V20	DR-V20	3
SINAMICS G120	DR-G120	5
SINAMICS G130/G150	DR-G130	6
SINAMICS S120	DR-S120	6
SIMOTION System & Programming	DR-SIMO	8
SINAMICS Perfect Harmony GH180	DR-GH180	5
<b>Training Program on LV Switchgear Products</b>		
LV Switchgear Products & Maintenance	LV-SGPM	5
LV Power Distribution Systems	LV-PD	2
SIMOCODE AC-Motor control	LV-SM	2
Basic Automation for Switchgear User	LV-BAS	3
AC Motor Basics Control & Maintenance	LV-IM	3
SIRIUS Soft Starter	LV-SS	2
Sentron PAC Meter	LV-PAC	2
Sentron Power Manager	LV-SPM	2
<b>Training Program on Process Instrumentation and Mechatronics</b>		
Basic Course on Process Instrumentation	PIA100	4
Basic Course on Mechatronics (Siemens-Berlin Certification)	SMSCP-L1	30
Basic Course on Mechatronics (Siemens-India Certification)	CU-MEX	12

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

**Sitrain India (Kalwa)**  
Siemens Training Centre  
TSDC, Kalwa Works  
Thane-Belapur Road, Thane - 400601  
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Tel: +91-22-39663208/8087  
E-mail: customer.training.in@siemens.com

**TSP-West 1 (Navi-Mumbai)**  
Esskay Services  
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. Pratiksha Kadam  
Tel: +91-22-27788403  
E-mail: mumtc@esskay.in

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

**TSP-East (Kolkata)**  
Esskay Services  
Lane-2 Swarupnagar  
Dankuni, Hooghly - 712311  
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E-mail: koltc@esskay.in

**TSP-North 1 (Panchkula)**  
Industrial Automation Training Centre  
178, Phase II, Industrial Area  
Panchkula - 134113, Haryana (India)  
Contact: Ms. Vandita Dua  
Tel: +91-172-5044417  
E-mail: iatc@iagautomation.in

**TSP - North2 (Jaipur)**  
Johns Electric Company Private Limited  
C-25(B), Malviya Industrial Area  
Jaipur - 302017, Rajasthan, India.  
Contact: Ms. Prachi Bhargava  
Tel: +91-141-2751694/357  
E-mail: prachibhargava@johnselectric.in

**TSP - South 1 (Coimbatore)**  
Karunya-Siemens Centre  
Karunya University, Karunya Nagar  
Coimbatore - 641114  
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E-mail: siemens@karunya.edu

**TSP - South 2 (Hyderabad)**  
Esskay Technologies  
9-10-13, 2nd Floor, Siddam Shetty Complex  
Above Canara Bank  
Opposite Raymond Showroom, Parklane  
Secunderabad - 500003  
Contact: Mr. Mohan  
Tel: +91-40-66776353/66386352

**TSP - South 3 (Chennai)**  
Vi-Microsystems Pvt. Ltd.  
Plot No. 75, Electronics Estate  
Perungudi, Chennai-600096  
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**TSP-West 2 Christiani Sharpline  
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Vishnu Nagar, Digha  
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