



PRICE LIST THAILAND 2022

Industrial Control Electrical Products

SIEMENS



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& SEARCH FOR ITEM NUMBER



3TS

Contactors For Switching Motors



DESCRIPTION

3TS Contactors are 3-pole contactors for switching motors in many industrial applications. It consists of small sizes covering broad power ranges. Main applications is switching and protecting standards motors from 2.2 kW up to 200 kW.

The series products are suitable for frequency of 50/60Hz, rated insulation voltage up to 690 ~ 1000V, rated operational current up to 380V under the utilization category AC-3.

They comply with IEC947, VDE0660, GB14048.

FEATURES

- Cost-effective solution for motor applications
- Auxiliary contact blocks can be mounted easily
- Easy mounting on DIN Rail
- High insulation voltage and impulse withstand voltage capacity
- SIGUT - Siemens patent terminal, ensures easy and reliable connection, strog shock

OPERATING CONDITIONS

- The altitude of the site of installation does not exceed 2000 meters above sea levels
- The ambient air temperature: -25 ~ +55°C
- Relative humidity does not exceed 50% at +40°C and 90% at +25 °C

3TS Contactors for Switching Motors

Standard Application Contactors 3-pole, 2.2...200kW AC Coil



1

Rated data AC-3 Operational current le up to	Rating of introduction motors at 50 Hz and	AC-1 Operational current le up to	Auxiliary contacts			Rated Control Supply voltage Us at 50/60 Hz	Order Number	Price List (TH)
			Ident. No.	Version				
								
400 V A	400V kW	690V A		NO	NC	VAC		

Size 0

6	2.2	25	00	-	-	220	3TS2900-0AN2	512.00
			10	1	-	220	3TS2910-0AN2	567.00
			01	-	1	220	3TS2901-0AN2	567.00
9	4	25	00	-	-	220	3TS3000-0AN2	556.00
			10	1	-	220	3TS3010-0AN2	612.00
			01	-	1	220	3TS3001-0AN2	612.00
12	5.5	25	00	-	-	220	3TS3100-0AN2	689.00
			10	1	-	220	3TS3110-0AN2	756.00
			01	-	1	220	3TS3101-0AN2	756.00
18	7.5	25	00	-	-	220	3TS3200-0AN2	967.00
			10	1	-	220	3TS3210-0AN2	1,145.00
			01	-	1	220	3TS3201-0AN2	1,145.00

Size 1

25	11	42	00	-	-	220	3TS3300-0AN2	1,300.00
			11	1	1	220	3TS3311-0AN2	1,623.00
32	15	42	00	-	-	220	3TS3400-0AN2	1,923.00
			11	1	1	220	3TS3411-0AN2	2,245.00

Size 2

40	18.5	65	00	-	-	220	3TS3500-0AN2	2,167.00
			11	1	1	220	3TS3511-0AN2	2,334.00
45	22	85	00	-	-	220	3TS3600-0AN2	3,078.00
			11	1	1	220	3TS3611-0AN2	3,289.00

VAC, 50/60Hz.

Rated Control Voltage	24Vac	42Vac	110Vac	230Vac	240Vac
Order No. suffix	C2	D2	G2	L2	P2

for contactors with mounted auxiliary switch block please see accessories

Note: For further voltages, contact a sales representative.

3TS Contactors for Switching Motors

1

Standard Application Contactors 3-pole, 2.2...200kW AC Coil



Rated data AC-3 Operational current le up to	Rating of introduction motors at 50 Hz and	AC-1 Operational current le up to	Auxiliary contacts		Rated Control Supply voltage Us at 50/60 Hz		Order Number	Price List (TH)
400 V A	400V kW	690V A	Ident. No.	Version NO NC		VAC		

Size 3

65	30	90	11	1	1	220	3TS4711-0AN2	4,289.00
			22	2	2	220	3TS4722-0AN2	4,534.00
75	37	95	11	1	1	220	3TS4811-0AN2	5,112.00
			22	2	2	220	3TS4822-0AN2	5,356.00

Size 4

85	45	120	11	1	1	220	3TS4911-0AN2	6,434.00
			22	2	2	220	3TS4922-0AN2	6,634.00
105	55	120	11	1	1	220	3TS5011-0AN2	8,678.00
			22	2	2	220	3TS5022-0AN2	8,867.00

Size 6

140	75	160	22	2	2	220	3TS5122-0AN2	10,778.00
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Size 8

170	90	210	22	2	2	220	3TS5222-0AN2	13,478.00
205	110	220	22	2	2	220	3TS5322-0AN2	15,112.00

Size 10

250	132	300	22	2	2	220	3TS5422-0AN2	21,000.00
300	160	320	22	2	2	220	3TS5522-0AN2	25,523.00

Size 12

400	200	500	22	2	2	220	3TS5622-0AN2	32,023.00
-----	-----	-----	----	---	---	-----	--------------	-----------

VAC, 50/60Hz.

Rated Control Voltage

24Vac	42Vac	110Vac	230Vac	240Vac
C2	D2	G2	L2	P2

Order No. suffix

for contactors with mounted auxiliary switch block please see accessories

Note: For further voltages, contact a sales representative.

3TS Contactors for Switching Motors

1

ACCESSORIES

For Contactors	Auxiliary contact Version			Order Number	Price List (TH)
					
	NO	NC			



Auxiliary contacts blocks

3TS 29-36	1	-	Aux contact front	3TX3010-8A	100.00
	-	1	Aux contact front	3TX3001-8A	100.00
3TS 33-34	1	1	Aux contact lateral	3TY7601-1A	223.00
3TS 35-56	1	1	Aux contact lateral	3TY7591-1A	223.00



Mechanical Interlock

3TS 29-36				3TX4091-1A	378.00
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3TS 47-55				3TX7466-1XA1	934.00
3TS56 with 3TS52-54				3TX7566-1XB1	1,045.00

For Contactors	Version	Rated control supply voltage Us		Order Number	Price List (TH)
		VAC	VDC		



Surge suppressor RC Element

3TS29 to 3TS36	Mounting on coil terminal	24...48	24...70	3TX7402-3R	634.00
		48...127	70...150	3TX7402-3S	623.00
		127...240	150...250	3TX7402-3T	500.00
		240...400	--	3TX7402-3U	623.00
3TS47 to 3TS51	Mounting at side of auxiliary contacts or on 35mm DIN rail	24...48	--	3TX7462-3R	934.00
		--	24...70	3TX7522-3R	2,100.00
		48...127	--	3TX7462-3S	845.00
		--	70...150	3TX7522-3S	1,167.00
		127...240	--	3TX7462-3T	767.00
		--	150...250	3TX7522-3T	1,167.00
3TS52 to 3TS56	Mounting at side of auxiliary contacts or on 35mm DIN rail	240...400	--	3TX7462-3U	767.00
		24...48	--	3TX7522-3R	2,100.00
		48...127	--	3TX7522-3S	1,167.00
		127...240	--	3TX7522-3T	1,167.00
		240...400	--	3TX7522-3U	1,167.00
		400...600	--	3TX7522-3V	1,167.00



3US

Thermal Overload Relays



DESCRIPTION

3US Series Overload Relays are 3-pole adjustable bi-metal overload relays mainly suitable for normal starting applications.

The relays are suitable for use in any climate. They are finger-safe according to EN 50274.

The relays comply with IEC947-4, VDE0660 and GB14048.

FEATURES

- 3US series are bimetal thermal relays with release class 10A.
- Phase failure sensitivity acc. To DIN VDE 0660 Part 104 by differential phase shift
- With temperature compensation
- With RESET button / Manual/Automatic (blue) button
- With switch position indicator
- With TEST(OFF) button (red)
- With Auxiliary contacts 1 NO +1 NC insulated each other
- Terminal for contactor coil
- SIGUT - Siemens patent terminal, ensures easy and reliable connection, strong shock resistance and perfect safety protection.
- Device identifying marker
- Overlapping setting ranges

3TS Thermal Overload Relays

1

For Standard Application

For Contactors	Current setting range	Order Number	Price List (TH)
	A		
	3TS29 to 3TS32	0.1 ... 0.16	3US5000-0A 700.00
		0.16 ... 0.25	3US5000-0C 700.00
		0.25 ... 0.4	3US5000-0E 700.00
		0.4 ... 0.63	3US5000-0G 700.00
		0.63 ... 1	3US5000-0J 700.00
		1 ... 1.6	3US5000-1A 700.00
		1.6 ... 2.5	3US5000-1C 700.00
		2.5 ... 4	3US5000-1E 700.00
		4 ... 6.3	3US5000-1G 700.00
		6.3 ... 10	3US5000-1J 700.00
		8 ... 12.5	3US5000-1K 700.00
		12.5 ... 18	3US5000-2L 700.00
	3TS33, 3TS 34	6.3 ... 10	3US5500-1J 834.00
		10 ... 16	3US5500-2A 834.00
		16 ... 25	3US5500-2C 834.00
		25 ... 32	3US5500-2N 834.00
	3TS35, 3TS36	16 ... 25	3US5600-2C 956.00
		25 ... 36	3US5600-2Q 956.00
		36 ... 45	3US5600-8M 1,500.00
	3TS47 to 3TS50	40 ... 57	3US5800-2T 1,823.00
		57 ... 70	3US5800-2V 1,823.00
		70 ... 88	3US5800-8W 2,167.00
		88 ... 105	3US5800-8X 2,167.00
	3TS51	90...120	3US6100-3H 3,378.00
		110...135	3US6100-3J 3,378.00
		120...150	3US6100-3K 3,378.00
	3TS52, 3TS53	120...150	3US6200-3K 3,378.00
		135...160	3US6200-3L 3,378.00
		150...180	3US6200-3M 3,378.00
		170...200	3US6200-3C 3,378.00
	3TS54 to 3TS56	160...250	3US6600-3C 3,689.00
		250...400	3US6600-3E 6,789.00

3TS Thermal Overload Relays

1

For Standard Application

For Overload Relay (size 0 to 1)	Current setting range A	Order Number	Price List (TH)
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3US50	3US1950-8	167.00
3US55	3US1955-8	200.00
3US56	3US1956-8	267.00
3US58	3US1958-8	334.00

3VS

Motor Starter Protectors



DESCRIPTION

The 3VS13, 3VS16 motor starter protectors are compact motor starter protectors for currents up to 52 A which operate according to the current limiting principle.

The devices are used for switching and protecting motors or other loads.

They are fitted with instantaneous overcurrent releases and inverse-time delayed overload relay. Motor starter protectors and contactors can be combined to form fuseless starter combinations.

The 3VS, 3VS16 motor starter protectors are suitable for use in any climate.

FEATURES

- Compact range from 0.4 A to 52 A
- Matched with 3TS contactors (direct mounting)
- No derating up to 55 °C with side-by-side assembly
- Consistent design
- Resistance and perfect safety protection.

FOR MOTOR PROTECTION

- 3VS13: 0.4 - 25A
- 3VS16: 6 - 52A

3VS Motor Starter Protector

1

3VS13 & 3VS16 Motor Starter Protector up to 52A For Standard Application

Rated current	Suitable for 3 Ph	Setting range	Instantaneous		
	induction	for thermal	electronic	Order Number	Price List
A	motors	overload	trip unit		(TH)
	with P	release			
	kW	A	A		

3VS13 Motor Starter Protectors, up to 25A



0.6	0.12/0.18	0.4...0.6	7.2	3VS1300-1ME00	2,156.00
1	0.25	0.6...1	12	3VS1300-1MF00	2,289.00
1.6	0.37/0.55	1...1.6	19	3VS1300-1MG00	2,289.00
2.4	0.75	1.6...2.4	29	3VS1300-1MH00	2,289.00
3.2	1.1	2...3.2	38	3VS1300-1NH00	2,289.00
4	1.1/1.5	2.4...4	48	3VS1300-1MJ00	2,289.00
5	1.5/2.2	3.2...5	60	3VS1300-1NJ00	2,289.00
6	2.2	4...6	72	3VS1300-1MK00	2,289.00
8	3	5...8	96	3VS1300-1NK00	2,289.00
10	3/4	6...10	120	3VS1300-1ML00	2,500.00
13	4/5.5	8...13	156	3VS1300-1NL00	2,500.00
16	7.5	10...16	190	3VS1300-1MM00	2,500.00
20	7.5	14...20	240	3VS1300-1MN00	2,600.00
25	11	18...25	300	3VS1300-1MP00	2,734.00

*No auxiliary contact.

*For MSP with integrated 1NO + 1NC, please contact nearest Sales Office.

3VS16 Motor Starter Protectors, up to 52A



10	3/4	6...10	3VS1600-1ML00	4,278.00
16	5.5/7.5	10...16	3VS1600-1MM00	4,278.00
25	11	16...25	3VS1600-1MN00	4,734.00
32	15	22...32	3VS1600-1MP00	5,056.00
40	18.5	28...40	3VS1600-1MQ00	5,834.00
52	22	36...52	3VS1600-1MR00	6,356.00

*No auxiliary contact.

*For MSP with integrated 1NO + 1NC, please contact nearest Sales Office.

3RT6/5

Contactors for Switching Motors



DESCRIPTION

3RT6/5 contactors are climate-proof and are suitable and tested for use worldwide.

If the devices are used in ambient conditions which deviate from common industrial conditions (EN 60721-3-3). "Stationary use Weather-Protected", information must be obtained about possible restrictions with regard to the reliability and endurance of the device and possible protective measures. The 3RT6/3RT5 contactors are also finger-safe according to EN50274.

The quoted ratings of three-phase motors (in kW) refers to the output power on the motor shaft (according to the nameplate).

STANDARDS

- IEC 60947-1
- IEC 60947-4-1
- IEC 60947-5-1 (auxiliary switches)

CONNECTION METHODS

3RT6/3RT5 contactors are available with screw terminals.

3RT6/5 Contactors for Switching Motors

1

High-Features Application Contactors, 3-pole, 3...250kW AC Coil



Rated data AC-2 and AC-3 Operational current le up to	Rating of introduction motors at 50 Hz and	AC-1 Operational current le up to	Auxiliary contacts Ident. No.	Version		Rated Control Supply voltage Us at 50/60 Hz	Order Number	Price List TH
400 V A	400V kW	690V A		NO	NC	VAC		

Size S00

7	3	18	10	1	-	230	3RT6015-1AP01	934.00
			01	-	1	230	3RT6015-1AP02	934.00
9	4	22	10	1	-	230	3RT6016-1AP01	1,012.00
			01	-	1	230	3RT6016-1AP02	1,012.00
12	5.5	22	10	1	-	230	3RT6017-1AP01	1,289.00
			01	-	1	230	3RT6017-1AP02	1,289.00
16	7.5	22	10	1	-	230	3RT6018-1AP01	1,634.00
			01	-	1	230	3RT6018-1AP02	1,634.00

Size S0

9	4	40	11	1	1	230	3RT6023-1AP00	1,034.00
12	5.5	40	11	1	1	230	3RT6024-1AP00	1,345.00
17	7.5	40	11	1	1	230	3RT6025-1AP00	1,989.00
25	11	40	11	1	1	230	3RT6026-1AP00	2,923.00
32	15	40	11	1	1	230	3RT6027-1AP00	3,800.00
38	18.5	40	11	1	1	230	3RT6028-1AP00	5,000.00

Size S2

50	22	60	-	-	-	230	3RT5036-1AP00	5,834.00
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Size S3

65	30	100	-	-	-	230	3RT5044-1AP00	7,934.00
80	37	120	-	-	-	230	3RT5045-1AP00	8,756.00
95	45	120	-	-	-	230	3RT5046-1AP00	9,800.00

Remarks

Selection of Coil Voltage
3RT6023 - 1AXXX-1/2

↑ ↑
coil voltage 1 = 1N0
2 = 1NC

Selection of Coil Voltage
3RT5045 - 1AXXX-1/2

↑ ↑
coil voltage 1 = 1N0
2 = 1NC

Rated control supply voltages (the 10th and 11th position
the order number must be changed)

Contactors	3RT60 1	3RT60 2, 3RT50
Magnetic coils for 50 and 60 Hz		
24 V AC	B0	B0
48 V AC	H0	H0
110 V AC	F0	G0
220 V AC	N2	N2
230 V AC	P0	P0

Note: For further voltages, contact a sales representative.

3RT6/5 Contactors for Switching Motors

High-Features Application Contactors, 3-pole, 3...250kW AC Coil



1

Rated data AC-2 and AC-3 Operational current le up to	Rating of introduction motors at 50 Hz and	AC-1 Operational current le up to	Auxiliary contacts Ident. No.	Version  		Rated Control Supply voltage Us at 50/60 Hz	Order Number	Price List TH
400 V A	400V kW	690V A		NO	NC	VDC		

Size 00

7	3	18	10	1	-	24	3RT6015-1BB41	1,123.00
			01	-	1	24	3RT6015-1BB42	1,123.00
9	4	22	10	1	-	24	3RT6016-1BB41	1,234.00
			01	-	1	24	3RT6016-1BB42	1,234.00
12	5.5	22	10	1	-	24	3RT6017-1BB41	1,467.00
			01	-	1	24	3RT6017-1BB42	1,467.00
16	7.5	22	10	1	-	24	3RT6018-1BB41	2,567.00
			01	-	1	24	3RT6018-1BB42	2,567.00

Size 0

25	11	40	11	1	1	24	3RT6026-1BB40	3,623.00
32	15	40	11	1	1	24	3RT6027-1BB40	4,845.00
38	18.5	40	11E	1	1	24	3RT6028-1BB40	5,489.00

Size S2

50	22	60	-	-	-	24	3RT5036-1BB40	7,412.00
----	----	----	---	---	---	----	---------------	----------

Size S3

65	30	100	-	-	-	24	3RT5044-1BB40	10,100.00
80	37	120	-	-	-	24	3RT5045-1BB40	11,556.00
95	45	120	-	-	-	24	3RT5046-1BB40	14,000.00

Remarks

Selection of Coil Voltage
3RT5045 - 1BXXX-1/2

↑ ↑
coil voltage 1 = 1N0
2 = 1NC

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

Contactors	3RT60 1	3RT60 2,
Magnetic coils for 50 and 60 Hz		
24V DC	B4	B4
48V DC	W4	W4
110V DC	F4	F4
230 VDC	P4	P4

Note: For further voltages, contact a sales representative.

3RT6/5 Contactors for Switching Motors

1

High-Features Application Contactors, 3-pole, 15...250kW AC DC Coil



Rated data AC-2 and AC-3 Operational current le up to	Rating of introduction motors at 50 Hz and	AC-1 Operational current le up to	Auxiliary contacts Ident. No.	Version NO NC	Rated Control Supply voltage Us at 50/60 Hz	Order Number	Price List TH
400 V A	400V kW	690V A			VAC		

Size S6

115	55	160		2	2	110 ... 127 220 ... 240	3RT5054-1AF36 3RT5054-1AP36	14,000.00 14,000.00
150	75	165		2	2	110 ... 127 220 ... 240	3RT5055-6AF36 3RT5055-6AP36	19,834.00 19,834.00
185	90	215		2	2	110 ... 127 220 ... 240	3RT5056-6AF36 3RT5056-6AP36	28,589.00 28,589.00

Size S10

225	110	275		2	2	110 ... 127 220 ... 240	3RT5064-6AF36 3RT5064-6AP36	30,334.00 30,334.00
265	132	330		2	2	110 ... 127 220 ... 240	3RT5065-6AF36 3RT5065-6AP36	44,334.00 44,334.00
300	160	330		2	2	110 ... 127 220 ... 240	3RT5066-6AF36 3RT5066-6AP36	53,667.00 53,667.00

Size S12

400	200	430		2	2	110 ... 127 220 ... 240	3RT5075-6AF36 3RT5075-6AP36	64,167.00 64,167.00
500	250	610		2	2	110 ... 127 220 ... 240	3RT5076-6AF36 3RT5076-6AP36	85,167.00 85,167.00

Remarks

Selection of Coil Voltage

3RT5055 - 6AX36



Rated control supply voltages (the 10th position of the order number must be changed)

Voltage Table

Us min Us max	
AC/DC 23...26V	B3
AC/DC 42...48V	D3
AC/DC 110...127V	F3
AC/DC 200...220V	M3
AC/DC 220...240V	P3
AC/DC 240...277V	U3
AC/DC 380...420V	V3
AC/DC 440...480V	R3

Note: For further voltages, contact a sales representative.

3RT6/5 Contactors for Switching Motors

1

Accessories



3RH6911-1HA22



3RH59 21-1FA22



3RH69 11-1DA



3RH5921-1CA..

For Contactors	Auxiliary Contacts Version		Order Number	Price List TH
	NO	NC		

Auxiliary switch blocks for snapping onto the front

Size S00 & S0

3RT6.1, 4-pole auxiliary switch blocks

3RT6.2	2	2	3RH6911-1HA22	512.00
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3RH61, 1-pole auxiliary switch blocks

3RH64	1	1	3RH6911-1HA11	300.00
-------	---	---	---------------	--------

1-pole auxiliary switch blocks

	1	--	3RH6911-1AA10	323.00
--	---	----	---------------	--------

Size S2 & S3

4-pole auxiliary switch blocks

3RT5.3	2	2	3RH5921-1FA22	500.00
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3RT5.4

Size S2 to S12, 1-pole auxiliary switch blocks

3RT5..3...	1	-	3RH5921-1CA10	167.00
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3RT5..7	-	1	3RH5921-1CA01	167.00
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Laterally mounted auxiliary switch blocks, mounting on the right and/or on the left

Size S00

3RT6.1,	--	2	3RH6911-1DA02	623.00
---------	----	---	---------------	--------

	1	1	3RH6911-1DA11	456.00
--	---	---	---------------	--------

	2	--	3RH6911-1DA20	623.00
--	---	----	---------------	--------

Size S0

3RT6.2,	--	2	3RH6921-1DA02	623.00
---------	----	---	---------------	--------

	1	1	3RH6921-1DA11	456.00
--	---	---	---------------	--------

	2	--	3RH6921-1DA20	623.00
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Size S3 to S12

3RT5.3...	1	1	3RH5921-1EA11	434.00
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3RT5.7

3RT6/5 Contactors for Switching Motors

Accessories

For Contactors	Version	Rated control supply voltage U _c AC operation		Order Number	Price List TH
Type		V			

Surge suppressors without LED (also for spring-type terminals)

Size S00



For plugging onto the front side of the contactors with and without auxiliary switch block

3RT6.1, 3RH6.	Varistors	24...48	24...70	3RT6916-1BB00	423.00
		48...127	70...150	3RT6916-1BC00	423.00
		127...240	150...250	3RT6916-1BD00	423.00
		240...400	--	3RT6916-1BE00	423.00
		400...600	--	3RT6916-1BF00	423.00
3RT6.1, 3RH6.	RC Elements	24...48	24...70	3RT6916-1CB00	423.00
		48...127	70...150	3RT6916-1CC00	423.00
		127...240	150...250	3RT6916-1CD00	423.00
		240...400	--	3RT6916-1CE00	423.00
		400...600	--	3RT6916-1CF00	423.00
3RT6.1, 3RH6.	Noise suppression diodes	12...250		3RT6916-1DG00	423.00

Size S0



For plugging onto the front side of the contactors (prior to mounting of the auxiliary switch block)

3RT6.2	Varistors	24...48	24...70	3RT6926-1BB00	512.00
		48...127	70...150	3RT6926-1BC00	512.00
		127...240	150...250	3RT6926-1BD00	512.00
		240...400	--	3RT6926-1BE00	512.00
		400...600	--	3RT6926-1BF00	512.00
3RT6.2	RC Elements	24...48	24...70	3RT6926-1CB00	634.00
		48...127	70...150	3RT6926-1CC00	634.00
		127...240	150...250	3RT6926-1CD00	634.00
		240...400	--	3RT6926-1CE00	634.00
		400...600	--	3RT6926-1CF00	634.00

Size S2 and S3

For fitting onto the coil terminals at top or bottom



3RT5.3, 3RT5.4	Varistors	24...48	24...70	3RT5926-1BB00	512.00
		48...127	70...150	3RT5926-1BC00	534.00
		127...240	150...250	3RT5926-1BD00	556.00
		240...400	--	3RT5926-1BE00	700.00
		400...600	--	3RT5926-1BF00	712.00
3RT5.3, 3RT5.4	RC Elements	24...48	24...70	3RT5936-1CB00	645.00
		48...127	70...150	3RT5936-1CC00	823.00
		127...240	150...250	3RT5936-1CD00	700.00
		240...400	--	3RT5936-1CE00	867.00
		400...600	--	3RT5936-1CF00	867.00

Size S6 to S12

For connecting to withdrawable coil for contactors with
conventional operating mechanism 3RT5...-A...
solid-state operating mechanism 3RT5...-A...

3RT5.5,	RC Elements	24...48	24...70	3RT5956-1CB00	1,512.00
3RT5.6,		48...127	70...150	3RT5956-1CC00	1,512.00
3RT5.7,		127...240	150...250	3RT5956-1CD00	1,512.00
		240...400	--	3RT5956-1CE00	1,512.00
		400...600	--	3RT5956-1CF00	1,512.00

3RH6

Contactor Relays



DESCRIPTION

The 3RH6 contactor relays are suitable for use in any climate. They are finger-safe according to EN50274 and have screw terminals.

The contactor is reliable with a high contact stability at low voltages and currents, suitable for solid-state circuits with currents $\geq 5\text{mA}$ at a voltage of $\geq 17\text{V}$.

The accessories for the 3RT6 contactors in size S00 can also be used for 3RH6 contactor relays.

The 3RH61 contactor relays can be expanded by up to four contacts by the addition of snap-on auxiliary switch blocks.

The auxiliary switch block can be easily be snapped onto the front of the contactor relays. The auxiliary switch block has a centrally positioned release lever for disassembly.

STANDARDS

- IEC 60947-1
- IEC 60947-4-1
- IEC 60947-5-1

KEY FEATURES

- DC operation
- Low power consumption
- Extended operating range of the coil
- Integrated coil circuit

3RH6 Contactor Relays

1

3RH6 contactor relays 4-pole



Rated data AC-15 Operational current I _e up to	Contacts Ident. No.	Version		Rated Control Supply voltage U _s at 50/60 Hz	Order Number	Price List TH
230 V A						
		NO	NC	V		

Size S00

AC operation - 50/60 Hz

10	40E	4	--	24	3RH6140-1AB00	1,167.00
				110	3RH6140-1AF00	1,167.00
				220	3RH6140-1AN20	1,167.00
	31E	3	1	24	3RH6131-1AB00	1,167.00
				110	3RH6131-1AF00	1,167.00
				220	3RH6131-1AN20	1,167.00
	22E	2	2	24	3RH6122-1AB00	1,167.00
				110	3RH6122-1AF00	1,167.00
				220	3RH6122-1AN20	1,167.00

DC operation

10	40E	4	--	24	3RH6140-1BB40	1,400.00
				220	3RH6140-1BM40	1,400.00
	31E	3	1	24	3RH6131-1BB40	1,400.00
				220	3RH6131-1BM40	1,400.00
	22E	2	2	24	3RH6122-1BB40	1,400.00
				220	3RH6122-1BM40	1,400.00

3RH6 Contactor Relays

3RH61 coupling contactor for switching auxiliary circuits 4- pole



1

Rated data AC-15 Operational current le up to	Contacts Ident. No.acc.to EN5011	Version	Rated Control Supply voltage Us at 50/60 Hz	Order Number	Price List TH
230 V A		  NO NC	V		

Size S00

With integrated surge suppressor (suppressor diode)

(auxiliary switch block cannot be mounted)

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

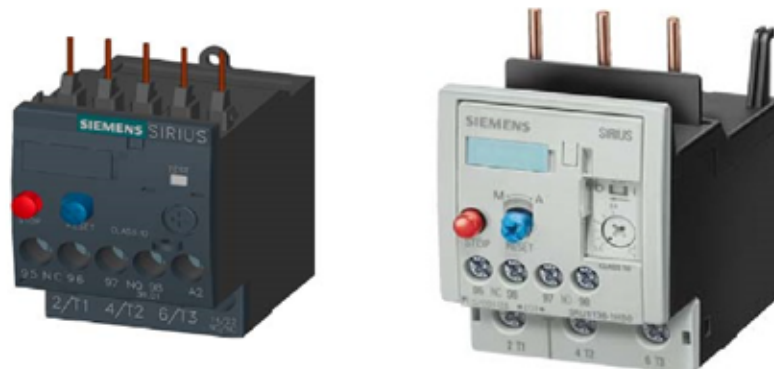
Operating range **0.7 to 1.25 x U_s**

Power consumption of the solenoid coils **2.8 W** at 24 V

10	40E	4	--	24	3RH6140-1KB40	1,400.00
				110	3RH6140-1KF40	1,400.00
	31E	3	1	24	3RH6131-1KB40	1,400.00
				110	3RH6131-1KF40	1,400.00
	22E	2	2	24	3RH6122-1KB40	1,400.00
				110	3RH6122-1KF40	1,400.00

3RU6/5

Thermal Overload Relays



DESCRIPTION

The 3RU61 and 3RU51 thermal overload relays are suitable for customers from all industries who want to guarantee optimum inverse-time delayed protection of their electrical loads (e.g. motors) under normal rating conditions (CLASS 10).

STANDARDS

- IEC 60947-4-1
- IEC 60947-5-1
- EN50581

KEY FEATURES

- Screw terminals
- Overload and phase failure protection
- Auxiliary contacts 1 NO + 1 NC
- Manual and automatic RESET
- Switch position indicators
- TEST function
- STOP button
- Integrated sealable cover

3RU6/5 Thermal Overload Relays

1

3RU61 thermal overload relays for mounting onto contactor, CLASS 10
For High Features Application



Size Contactor	Current setting value of the inverse- time delayed overload release	Short-circuit protection with fuse, type of coordination "2" operational class gG	Order Number	Price List TH
A				
Size S00				
	0.11....0.16	0.5	3RU6116-0AB0	1,345.00
	0.14....0.2	1	3RU6116-0BB0	1,345.00
	0.18....0.25	1	3RU6116-0CB0	1,345.00
	0.22....0.32	1.6	3RU6116-0DB0	1,345.00
	0.28....0.4	2	3RU6116-0EB0	1,345.00
	0.35....0.5	2	3RU6116-0FB0	1,345.00
	0.45....0.63	2	3RU6116-0GB0	1,345.00
	0.55....0.8	4	3RU6116-0HB0	1,345.00
	0.7....1	4	3RU6116-0JB0	1,345.00
	0.9....1.25	4	3RU6116-0KB0	1,345.00
	1.1....1.6	6	3RU6116-1AB0	1,345.00
	1.4....2	6	3RU6116-1BB0	1,345.00
	1.8....2.5	10	3RU6116-1CB0	1,345.00
	2.2....3.2	10	3RU6116-1DB0	1,345.00
	2.8....4	16	3RU6116-1EB0	1,345.00
	3.5....5	20	3RU6116-1FB0	1,345.00
	4.5....6.3	20	3RU6116-1GB0	1,345.00
	5.5....8	25	3RU6116-1HB0	1,400.00
	7....10	35	3RU6116-1JB0	1,756.00
	9....12.5	35	3RU6116-1KB0	1,756.00
	11....16	40	3RU6116-4AB0	1,756.00
Size S0				
	1.8....2.5	10	3RU6126-1CB0	1,989.00
	2.2....3.2	10	3RU6126-1DB0	1,989.00
	2.8....4	16	3RU6126-1EB0	1,989.00
	3.5....5	20	3RU6126-1FB0	1,989.00
	4.5....6.3	20	3RU6126-1GB0	1,989.00
	5.5....8	25	3RU6126-1HB0	1,989.00
	7....10	35	3RU6126-1JB0	1,989.00
	9....12.5	35	3RU6126-1KB0	1,989.00
	11....16	40	3RU6126-4AB0	1,989.00
	14....20	50	3RU6126-4BB0	1,989.00
	17....22	63	3RU6126-4CB0	1,989.00
	20....25	63	3RU6126-4DB0	1,989.00
	23....28	63	3RU6126-4NB0	2,745.00
	27....32	80	3RU6126-4EB0	2,745.00
	30....26	80	3RU6126-4PB0	2,745.00
	34....40	80	3RU6126-4FB0	2,745.00

3RU6/5 Thermal Overload Relays

1

3RU51 thermal overload relays for mounting onto contactor, CLASS 10
For High Features Application



Size Contactor	Current setting value of the inverse- time delayed overload release	Short-circuit protection with fuse, type of coordination "2" operational class gG	Order Number	Price List TH
A				
Size S2				
	5.5....8	25	3RU5136-1HB0	2,778.00
	7....10	35	3RU5136-1JB0	2,778.00
	9....12.5	35	3RU5136-1KB0	2,778.00
	11....16	40	3RU5136-4AB0	2,778.00
	14....20	50	3RU5136-4BB0	2,778.00
	18....25	63	3RU5136-4DB0	2,778.00
	22....32	80	3RU5136-4EB0	3,678.00
	28....40	80	3RU5136-4FB0	3,678.00
	36....45	100	3RU5136-4GB0	3,678.00
	40....50	100	3RU5136-4HB0	4,378.00
Size S3				
	18....25	63	3RU5146-4DB0	4,378.00
	22....32	80	3RU5146-4EB0	4,378.00
	28....40	80	3RU5146-4FB0	4,378.00
	36....50	125	3RU5146-4HB0	4,900.00
	45....63	125	3RU5146-4JB0	4,900.00
	57....75	160	3RU5146-4KB0	5,134.00
	70....90	160	3RU5146-4LB0	5,256.00
	80....100	200	3RU5146-4MB0	7,589.00

3RU6/5 Thermal Overload Relays

1

3RU61 thermal overload relays for stand-alone installation, CLASS 10
For High Features Application



Size Contactor	Current setting value of the inverse- time delayed overload release	Short-circuit protection with fuse, type of coordination "2" operational class gG	Order Number	Price List TH
A				
Size S00				
	0.11....0.16	0.5	3RU6116-0AB1	2,178.00
	0.14....0.2	1	3RU6116-0BB1	2,178.00
	0.18....0.25	1	3RU6116-0CB1	2,178.00
	0.22....0.32	1.6	3RU6116-0DB1	2,178.00
	0.28....0.4	2	3RU6116-0EB1	2,178.00
	0.35....0.5	2	3RU6116-0FB1	2,178.00
	0.45....0.63	2	3RU6116-0GB1	2,178.00
	0.55....0.8	4	3RU6116-0HB1	2,178.00
	0.7....1	4	3RU6116-0JB1	2,178.00
	0.9....1.25	4	3RU6116-0KB1	2,178.00
	1.1....1.6	6	3RU6116-1AB1	2,178.00
	1.4....2	6	3RU6116-1BB1	2,178.00
	1.8....2.5	10	3RU6116-1CB1	2,178.00
	2.2....3.2	10	3RU6116-1DB1	2,178.00
	2.8....4	16	3RU6116-1EB1	2,178.00
	3.5....5	20	3RU6116-1FB1	2,178.00
	4.5....6.3	20	3RU6116-1GB1	2,178.00
	5.5....8	25	3RU6116-1HB1	2,178.00
	7....10	35	3RU6116-1JB1	2,178.00
	9....12.5	35	3RU6116-1KB1	2,178.00
	11....16	40	3RU6116-4AB1	2,178.00
Size S0				
	14....20	50	3RU6126-4BB1	2,578.00
	17....22	63	3RU6126-4CB1	2,578.00
	20....25	63	3RU6126-4DB1	2,578.00
	23....28	63	3RU6126-4NB1	3,723.00
	27...32	80	3RU6126-4EB1	3,723.00
	30...26	80	3RU6126-4PB1	3,723.00
	34...40	80	3RU6126-4FB1	3,723.00

3RU6/5 Thermal Overload Relays

1

3RU51 thermal overload relays with screw terminals on the auxiliary current side for stand-alone For High Features Application



Size Contactor	Current setting value of the inverse- time delayed overload release	Short-circuit protection with fuse, type of coordination "2" operational class gG	Order Number	Price List TH
A				

Size S6

90...120	224	3RU5156-3HB2	8,867.00
110...135	224	3RU5156-3JB2	8,867.00
120...150	250	3RU5156-3KB2	8,867.00
135...160	250	3RU5156-3LB2	8,867.00
150...180	250	3RU5156-3MB2	8,867.00
170...205	250	3RU5156-3NB2	8,867.00

Size S10

140...200	400	3RU5166-5EB1	9,567.00
180...250	400	3RU5166-5FB1	9,567.00
220...320	400	3RU5166-5GB1	9,567.00
280...400	500	3RU5176-5HB1	16,923.00
350...500	500	3RU5176-5JB1	16,923.00

3RU6/5 Thermal Overload Relays

Accessories

1

Version	Size	Order Number	Price List TH
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Terminal brackets for stand-alone installation



3RU6926-3AA01

For separate mounting of the overload relays; screw and snap-on mounting onto TH35 standard mounting rail; size S3 also for TH75 standard mounting rail

S00	3RU6916-3AA01	412.00
S0	3RU6926-3AA01	467.00
S2	3RU5936-3AA01	578.00
S3	3RU5946-3AA01	745.00

Mechanical RESET



3RU6900-1A

Resetting plungers, holders and formers

S00, S0, S6, S10, S12	3RU6900-1A	167.00
S2, S3	3RU5900-1A	167.00

Pushbuttons with extended stroke (12mm), IP65, Ø 22 mm

S00, S0, S2, S3 S6, S10, S12	3SU1200-0FB10-0AA0	1,172.00
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Extension plungers
For distance between the pushbutton and the unlatching button of the relay

S00, S0, S2, S3 S6, S10, S12	3SU1900-0KG10-0AA0	138.00
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Cable releases with holder for RESET



For Ø 6.5 mm hole in the control panel; max. control panel thickness 8 mm

• Length 400 mm

S00, S0, S6, S10, S12	3RU6900-1B	1,489.00
S2, S3	3RU5900-1B	1,489.00

• Length 600 mm

S00, S0, S6, S10, S12	3RU6900-1C	1,489.00
S2, S3	3RU5900-1C	1,489.00

3RV6/5

Motor Starter Protectors



DESCRIPTION

SIRIUS 3RV6/5 motor starter protectors are compact, current limiting motor starter protectors which are optimized for load feeders. The motor starter protectors are used for switching and protecting three-phase motors of up to 45 kW at 400V AC and other loads with rated currents of up to 100A.

The 3RV6/5 motor starter protectors are usually approved according to IEC and UL/CSA. 3RV motor starter protector are approved according to UL 508 as:

- Manual Motor Controllers,
- Manual Motor Controllers for "Group Installations",
- Manual Motor Controllers Suitable for Tab Conductor Protection in Group Installations,
- Self-Protected Combination Motor Controllers (Type E).

TYPE OF CONSTRUCTION

The 3RV6/3RV5 motor starter protectors are available in two sizes:

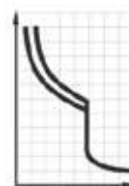
- Size 500 - width 45 mm, max. rated current 16 A,
at 400 V AC suitable for three-phase motors up to 7.5 kW
- Size 50 - width 45 mm, max. rated current 40 A,
at 400 V AC suitable for three-phase motors up to 18.5 kW

The 3RV5 motor starter protectors are available in two framesizes:

- Size S2 - width 55 mm, max. rated current 50 A,
at 400 V AC suitable for three-phase motors up to 22 kW
- Size S3 - width 70 mm, max. rated current 100 A,
at 400 V AC suitable for three-phase motors up to 45 kW

3RV6/5 Motor Starter Protectors

For motor protection up to 100A
Class 10, without auxiliary switches



1

Size	Rated current	Suitable for 3 Phase induction motors with P	Setting range for thermal overload release	Instantaneous overcurrent release	Short circuit breaking capacity at 400 V AC	Order Number	Price List TH
	A	kW	A	A	kA		

Size S00



0.16	0.04	0.11...0.16	2.1	100	3RV6011-0AA10	1,867.00
0.2	0.06	0.14...0.20	2.6	100	3RV6011-0BA10	1,867.00
0.25	0.06	0.18...0.25	3.3	100	3RV6011-0CA10	1,867.00
0.32	0.09	0.22...0.32	4.2	100	3RV6011-0DA10	1,934.00
0.4	0.09	0.28...0.40	5.2	100	3RV6011-0EA10	1,934.00
0.5	0.12	0.35...0.50	6.5	100	3RV6011-0FA10	1,934.00
0.63	0.18	0.45...0.63	8.2	100	3RV6011-0GA10	1,989.00
0.8	0.18	0.55...0.80	10	100	3RV6011-0HA10	2,045.00
1	0.25	0.7...1	13	100	3RV6011-0JA10	2,045.00
1.25	0.37	0.9...1.25	16	100	3RV6011-0KA10	2,167.00
1.6	0.55	1.1...1.6	21	100	3RV6011-1AA10	2,167.00
2	0.75	1.4...2	26	100	3RV6011-1BA10	2,223.00
2.5	0.75	1.8...2.5	33	100	3RV6011-1CA10	2,223.00
3.2	1.1	2.2...3.2	42	100	3RV6011-1DA10	2,223.00
4	1.5	2.8...4	52	100	3RV6011-1EA10	2,223.00
5	1.5	3.5...5	65	100	3RV6011-1FA10	2,223.00
6.3	2.2	4.5...6.3	82	100	3RV6011-1GA10	2,223.00
8	3	5.5...8	104	100	3RV6011-1HA10	2,567.00
10	4	7...10	130	100	3RV6011-1JA10	2,923.00
12.5	5.5	9...12.5	163	100	3RV6011-1KA10	2,923.00
16	7.5	11...16	208	55	3RV6011-4AA10	2,923.00

Size S0



20	7.5	14...20	260	55	3RV6021-4BA10	3,267.00
22	11	17...22	286	55	3RV6021-4CA10	3,500.00
25	11	20...25	325	55	3RV6021-4DA10	3,856.00
28	15	23...28	364	55	3RV6021-4NA10	4,900.00
32	15	27...32	400	55	3RV6021-4EA10	4,900.00
36	18.5	30...36	432	55	3RV6021-4PA10	5,834.00
40	18.5	34...60	480	55	3RV6021-4FA10	6,423.00

Size S2



45	22	36....45	585	50	3RV5031-4GA10	8,756.00
50	22	40.....50	650	50	3RV5031-4HA10	8,989.00

Size S3

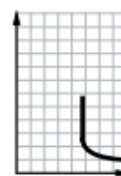


63	30	45.....63	819	50	3RV5041-4JA10	9,334.00
75	37	57.....75	975	50	3RV5041-4KA10	10,500.00
90	45	70.....90	1170	50	3RV5041-4LA10	10,967.00
100	45	80.....100	1235	50	3RV5041-4MA10	11,434.00

3RV6/5 Motor Starter Protectors

1

For starter combinations up to 100A
Class 10, without auxiliary switches



Size	Rated current	Suitable for 3 Phase induction motors with P	Setting range for thermal overload release	Instantaneous overcurrent release	Short circuit breaking capacity a 400 V AC	Order Number	Price List TH
	A	kW	A	A	kA		

Size S00



0.16	0.04	without	2.1	100	3RV6311-0AC10	2,223.00
0.2	0.06	without	2.6	100	3RV6311-0BC10	2,223.00
0.25	0.06	without	3.3	100	3RV6311-0CC10	2,223.00
0.32	0.09	without	4.2	100	3RV6311-0DC10	2,278.00
0.4	0.09	without	5.2	100	3RV6311-0EC10	2,278.00
0.5	0.12	without	6.5	100	3RV6311-0FC10	2,278.00
0.63	0.18	without	8.2	100	3RV6311-0GC10	2,278.00
0.8	0.18	without	10	100	3RV6311-0HC10	2,278.00
1	0.25	without	13	100	3RV6311-0JC10	2,334.00
1.25	0.37	without	16	100	3RV6311-0KC10	2,334.00
1.6	0.55	without	21	100	3RV6311-1AC10	2,334.00
2	0.75	without	26	100	3RV6311-1BC10	2,456.00
2.5	0.75	without	33	100	3RV6311-1CC10	2,456.00
3.2	1.1	without	42	100	3RV6311-1DC10	2,456.00
4	1.5	without	52	100	3RV6311-1EC10	2,456.00
5	1.5	without	65	100	3RV6311-1FC10	2,456.00
6.3	2.2	without	82	100	3RV6311-1GC10	2,456.00
8	3	without	104	100	3RV6311-1HC10	2,689.00
10	4	without	130	100	3RV6311-1JC10	3,034.00
12.5	5.5	without	163	100	3RV6311-1KC10	3,034.00
16	7.5	without	208	55	3RV6311-4AC10	3,034.00

Size S0



20	7.5	without	260	55	3RV6321-4BC10	3,156.00
22	11	without	286	55	3RV6321-4CC10	3,389.00
25	11	without	325	55	3RV6321-4DC10	3,734.00
28	15	without	364	55	3RV6321-4NC10	4,789.00
32	15	without	400	55	3RV6321-4EC10	4,789.00
36	18.5	without	432	20	3RV6321-4PC10	5,834.00
40	18.5	without	450	20	3RV6321-4FC10	6,300.00

Size S2



45	22	without	585	50	3RV5331-4GC10	8,523.00
50	22	without	650	50	3RV5331-4HC10	8,867.00

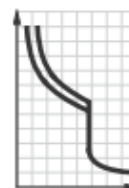
Size S3



63	30	without	819	50	3RV5341-4JC10	9,334.00
75	37	without	975	50	3RV5341-4KC10	10,500.00
90	45	without	1170	50	3RV5341-4LC10	11,089.00
100	45	without	1235	50	3RV5341-4MC10	11,323.00

3RV6/5 Motor Starter Protectors

Motor starter protectors for the protection of transformers
with high inrush current up to 100A
Class 10, without auxiliary switches



1

Size	Rated current	Setting range for thermal overload release	Instantaneous overcurrent release	Short circuit breaking capacity at 400 V AC	Order Number	Price List TH
	A	A	A	kA		

Size S00



0.16	0.11...0.16	3.3	100	3RV6411-0AA10	2,634.00
0.2	0.14...0.20	4.2	100	3RV6411-0BA10	2,634.00
0.25	0.18...0.25	5.2	100	3RV6411-0CA10	2,634.00
0.32	0.22...0.32	6.5	100	3RV6411-0DA10	2,634.00
0.4	0.28...0.40	8.2	100	3RV6411-0EA10	2,634.00
0.5	0.35...0.50	10	100	3RV6411-0FA10	2,634.00
0.63	0.45...0.63	13	100	3RV6411-0GA10	2,634.00
0.8	0.55...0.80	16	100	3RV6411-0HA10	2,634.00
1	0.7...1	21	100	3RV6411-0JA10	2,789.00
1.25	0.9...1.25	26	100	3RV6411-0KA10	2,789.00
1.6	1.1...1.6	33	100	3RV6411-1AA10	2,789.00
2	1.4...2	42	100	3RV6411-1BA10	2,789.00
2.5	1.8...2.5	52	100	3RV6411-1CA10	2,789.00
3.2	2.2...3.2	65	100	3RV6411-1DA10	2,789.00
4	2.8...4	82	100	3RV6411-1EA10	2,789.00
5	3.5...5	104	100	3RV6411-1FA10	2,789.00
6.3	4.5...6.3	130	100	3RV6411-1GA10	2,789.00
8	5.5...8	163	100	3RV6411-1HA10	2,789.00
10	7...10	208	100	3RV6411-1JA10	3,089.00
12.5	9...12.5	260	100	3RV6411-1KA10	3,089.00
16	11...16	286	55	3RV6411-4AA10	3,089.00

Size S0



16	11...16	286	55	3RV6421-4AA10	3,089.00
20	14...20	325	55	3RV6421-4BA10	3,234.00
22	17...22	364	55	3RV6421-4CA10	3,445.00
25	20...25	400	55	3RV6421-4DA10	3,945.00

Size S2



16	11.....16	325	50	3RV5431-4AA10	5,656.00
20	14.....20	416	50	3RV5431-4BA10	6,056.00
25	18.....25	520	50	3RV5431-4DA10	6,434.00
32	22.....32	660	50	3RV5431-4EA10	7,789.00
40	28.....40	836	50	3RV5431-4FA10	8,845.00

3RV6/5 Motor Starter Protectors

1

Accessories Up to 100A

	Version	Contact	For motor starter protectors	Order Number	Price List TH
			Size		
	Transverse auxiliary switches	1 CO	S00, S0	3RV6901-1D	323.00
		1 NO + 1 NC		3RV6901-1E	367.00
		2 NO		3RV6901-1F	378.00
		1 CO	S2, S3	3RV5901-1D	323.00
		1 NO + 1 NC		3RV5901-1E	378.00
		2 NO		3RV5901-1F	400.00
	Lateral auxiliary switches with screw terminals mountable on the left	1 NO + 1 NC	S00, S0	3RV6901-1A	367.00
		2 NO		3RV6901-1B	378.00
		2 NC		3RV2901-1C	504.00
		2 NC	S2, S3	3RV5901-1A	378.00
		2 NO + 2 NC		3RV5901-1B	400.00
	Signaling Switches	1 NO + 1 NC	S00, S0	3RV6921-1M	712.00
	One signal switch can be mounted on the left per motor starter protector Separated tripped and short- circuit alarms 1NO+ 1NC		S2, S3	3RV5921-1M	734.00
	Undervoltage trip units				
	Rated control supply voltage V AC 50 Hz				
	230		S00, S0	3RV6902-1AP0	1,100.00
	400		S00, S0	3RV6902-1AV0	1,134.00
	230		S2, S3	3RV5902-1AP0	1,134.00
	400		S2, S3	3RV5902-1AV0	1,178.00
	Shunt trip units				
	Rated control supply voltage V AC 50 Hz, 100% on period				
	20...24		S00, S0	3RV6902-1DB0	1,134.00
	210...240		S00, S0	3RV6902-1DP0	1,100.00
	350...415		S00, S0	3RV6902-1DV0	1,134.00
	20...24		S2, S3	3RV5902-1DB0	1,178.00
	210...240		S2, S3	3RV5902-1DP0	1,134.00
	350...415		S2, S3	3RV5902-1DV0	1,178.00

3RV6/5 Motor Starter Protectors

1

Accessories Up to 100A

Version	Colour of handle	Version of extension shaft (mm)	For motor starter protector Size	Order Number	Price List TH
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Door-coupling rotary operating mechanisms

Black	130	S00, S0, S2, S3	3RV6926-0B	1,612.00
	330	S00, S0, S2, S3	3RV6926-0K	1,889.00



Plug-in lugs
For screwing the motor starter
protector onto mounting plates

S00, S0	3RV6928-0B	1,300.00
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For each motor starter protector
2 units are required

3RT 2/1

Contactors for Switching Motors



DESCRIPTION

3RT2/1 contactors are climate-proof and are suitable and tested for use worldwide.

If the devices are used in ambient conditions which deviate from common industrial conditions (EN 60721-3-3 "Stationary use Weather-Protected"), information must be obtained about possible restrictions with regard to the reliability and endurance of the device and possible protective measures.

3RT2/1 contactors are finger-safe according to EN50274. The devices with ring terminal lug connection comply with degree of protection (IP 20) when fitted with the related terminal cover.

STANDARDS

- IEC 60947-1, EN 60947-1
- IEC 60947-4-1, EN 60947-4-1
- IEC 60947-5-1, EN 60947-5-1 (auxiliary switches)

POWER RANGE

Contactors for switching motors:

- Size S00: 3RT201 up to 7.5kW
- Size S0: 3RT202 up to 18.5kW
- Size S2: 3RT203 up to 37kW
- Size S3: 3RT203 up to 55kW
- Size S6 to S12: 3RT10 up to 250kW

3RT 2/1 Contactors for Switching Motors

1

High-Features Application Contactors
3-pole, 3...250kW AC Coil



Rated data AC-2 and AC-3 Operational current le up to	Rating of introduction motors at 50 Hz and	AC-1 Operational current le up to	Auxiliary contacts Ident. No.	Version	Rated Control Supply voltage Us at 50/60 Hz	Order Number	Price List TH
400 V A	400V kW	690V A		NO NC	VAC		

Size S00

7	3	18	10	1	-	230	3RT2015-1AP01	1,335.00
			01	-	1	230	3RT2015-1AP02	1,335.00
9	4	22	10	1	-	230	3RT2016-1AP01	1,432.00
			01	-	1	230	3RT2016-1AP02	1,432.00
12	5.5	22	10	1	-	230	3RT2017-1AP01	1,767.00
			01	-	1	230	3RT2017-1AP02	1,767.00
16	7.5	22	10	1	-	230	3RT2018-1AP01	2,239.00
			01	-	1	230	3RT2018-1AP02	2,239.00

Size S0

25	11	40	11	1	1	230	3RT2026-1AP00	3,283.00
32	15	40	11	1	1	230	3RT2027-1AP00	4,752.00
38	18.5	40	11	1	1	230	3RT2028-1AP00	5,328.00

Remarks

Selection of Coil Voltage

3RT1045 - 1AXX-1/2

↑ ↑
 coil vol 1 = 1N0
 2 = 1NC

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

Contactor Type Rated control supply Voltage Us	3RT20 1	3RT20 2
Magnetic coils for 50 and 60 Hz		
24 V AC	B0	C2
42 V AC	D0	D2
48 V AC	H0	H2
110 V AC	F0	G2
220 V AC	P0	N2
230 V AC	V0	L2

Note: For further voltages, contact a sales representative.

3RT 2/1 Contactors for Switching Motors

High-Features Application Contactors
3-pole, 3...250kW AC Coil



Rated data AC-2 and AC-3 Operational current le up to	Rating of introduction motors at 50 Hz and	AC-1 Operational current le up to	Auxiliary contacts Ident. No.	Version  		Rated Control Supply voltage Us at 50/60 Hz	Order Number	Price List TH
400 V A	400V kW	690V A		NO	NC	VAC		

Size S2

50	22	70	11	1	1	230	3RT2036-1AP00	7,092.00
65	30	80	11	1	1	230	3RT2037-1AP00	10,008.00
80	37	90	11	1	1	230	3RT2038-1AP00	11,160.00

Size S3

95	45	130	11	1	1	230	3RT2046-1AP00	15,084.00
110	55	130	11	1	1	230	3RT2047-1AP00	17,460.00

Remarks

Selection of Coil Voltage

3RT1045 - 1AXX-1/2

↑ ↑
coil 1 = 1N0
voltage 2 = 1NC

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

Contactor Type	Rated control supply Voltage Us
3RT20 3, 3RT20 4	
Magnetic coils for 50 and 60 Hz	
24 V AC	C2
42 V AC	D2
48 V AC	H2
110 V AC	G2
220 V AC	N2
230 V AC	L2

Note: For further voltages, contact a sales representative.

3RT 2/1 Contactors for Switching Motors

High-Features Application Contactors
3-pole, 3...250kW DC Coil



1

Rated data AC-2 and AC-3 Operational current le up to	Rating of introduction motors at 50 Hz and	AC-1 Operational current le up to	Auxiliary contacts Ident. No.	Version  		Rated Control Supply voltage Us at 50/60 Hz	Order Number	Price List TH
400 V A	400V kW	690V A		NO	NC	VDC		

Size 00

7	3	18	10	1	-	24	3RT2015-1BB41	1,566.00
			01	-	1	24	3RT2015-1BB42	1,566.00
9	4	22	10	1	-	24	3RT2016-1BB41	1,670.00
			01	-	1	24	3RT2016-1BB42	1,670.00
12	5.5	22	10	1	-	24	3RT2017-1BB41	2,034.00
			01	-	1	24	3RT2017-1BB42	2,034.00
16	7.5	22	10	1	-	24	3RT2018-1BB41	3,600.00
			01	-	1	24	3RT2018-1BB42	3,600.00

Size 0

25	11	40	11	1	1	24	3RT2026-1BB40	5,256.00
32	15	40	11	1	1	24	3RT2027-1BB40	7,128.00
38	18.5	40	11	1	1	24	3RT2028-1BB40	7,812.00

Remarks

Selection of Coil Voltage

3RT1045 - 1AXX-1/2

↑ ↑
coil 1 = 1N0
voltage 2 = 1NC

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

Contactor Type Rated control supply Voltage Us	3RT20 1	3RT20 2,
12V DC	A4	--
24V DC	B4	B4
42V DC	D4	D4
48V DC	W4	W4
60V DC	E4	E4
110V DC	F4	F4
125V DC	G4	G4
220V DC	M4	M4
230V DC	P4	P4

Note: For further voltages, contact a sales representative.

3RT 2/1 Contactors for Switching Motors

High-Features Application Contactors
3-pole, 3...250kW DC Coil



Rated data AC-2 and AC-3 Operational current le up to	Rating of introduction motors at 50 Hz and	AC-1 Operational current le up to	Auxiliary contacts Ident. No.	Version  		Rated Control Supply voltage Us at 50/60 Hz	Order Number	Price List TH
400 V A	400V kW	690V A		NO	NC	VDC		

Size S2

50	22	70	11	1	1	24	3RT2036-1KB40	11,088.00
65	30	80	11	1	1	24	3RT2037-1KB40	15,156.00
80	37	90	11	1	1	24	3RT2038-1KB40	15,948.00

Size S3

95	45	130	11	1	1	24	3RT2046-1KB40	19,584.00
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Remarks

Selection of Coil Voltage

3RT1045 - 1BXX-1/2

↑ ↑
coil volt: 1 = 1N0
2 = 1NC

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

Contactor Type Rated control supply Voltage Us	3RT20 3, 3RT20 4
12 V DC	-
24 V DC	B4
42 V DC	D4
48 V DC	W4
60 V DC	E4
110 V DC	F4
125 V DC	G4
220 V DC	M4
230 V DC	P4

Note: For further voltages, contact a sales representative.

3RT 2/1 Contactors for Switching Motors

High-Features Application Contactors
3-pole, 3...250kW AC/DC Coil



1

Rated data AC-2 and AC-3 Operational current le up to	Rating of introduction motors at 50 Hz and	AC-1 Operational current le up to	Auxiliary contacts Ident. No.	Version  		Rated Control Supply voltage Us at 50/60 Hz	Order Number	Price List TH
400 V A	400V kW	690V A		NO	NC	VAC		

Size S0

12	5.5	40	11	1	1	200....280	3RT2024-1NP30	4,284.00
17	7.5	40	11	1	1	200....280	3RT2025-1NP30	5,112.00
25	11	40	11	1	1	200....280	3RT2026-1NP30	6,084.00
32	15	50	11	1	1	200....280	3RT2027-1NP30	8,316.00
38	18.5	50	11	1	1	200....280	3RT2028-1NP30	9,144.00

Size S2

50	22	70	11	1	1	175...280	3RT2036-1NP30	11,088.00
65	30	80	11	1	1	175...280	3RT2037-1NP30	15,156.00
80	37	90	11	1	1	175...280	3RT2038-1NP30	15,948.00

Size S3

95	45	130	11	1	1	175...280	3RT2046-1NP30	19,584.00
110	55	130	11	1	1	175...280	3RT2047-1NP30	20,340.00

Remarks

Selection of Coil Voltage

3RT1045 - 1BXX-1/2

↑ ↑
coil volt: 1 = 1N0
2 = 1NC

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

Us min Us max	3RT20 2
21...28 V AC/DC	B3
95...130 V AC/DC	F3
200...280 V AC/DC	P3

Us min Us max	3RT 20 3, 3RT 20 4
20...33 V AC/DC	B3
48...80 V AC/DC	E3
83...155 V AC/DC	F3
175...280 V AC/DC	P3

Note: For further voltages, contact a sales representative.

3RT 2/1 Contactors for Switching Motors

High-Features Application Contactors
3-pole, 3...250kW AC/DC Coil



Rated data AC-2 and AC-3 Operational current le up to	Rating of introduction motors at 50 Hz and	AC-1 Operational current le up to	Auxiliary contacts Ident. No.	Version /	Rated Control Supply voltage Us at 50/60 Hz	Order Number	Price List TH
400 V A	400V kW	690V A		NO NC	VAC		

Size S6

115	55	160	2	2	110 ... 127	3RT1054-6AF36	20,520.00
					220 ... 240	3RT1054-6AP36	20,520.00
150	75	185	2	2	110 ... 127	3RT1055-6AF36	25,056.00
					220 ... 240	3RT1055-6AP36	25,056.00
185	90	215	2	2	110 ... 127	3RT1056-6AF36	31,500.00
					220 ... 240	3RT1056-6AP36	31,500.00

Size S10

225	110	275	2	2	110 ... 127	3RT1064-6AF36	35,532.00
					220 ... 240	3RT1064-6AP36	35,532.00
265	132	330	2	2	110 ... 127	3RT1065-6AF36	50,400.00
					220 ... 240	3RT1065-6AP36	50,400.00
300	160	330	2	2	110 ... 127	3RT1066-6AF36	60,480.00
					220 ... 240	3RT1066-6AP36	60,480.00

Size S12

400	200	430	2	2	110 ... 127	3RT1075-6AF36	75,960.00
					220 ... 240	3RT1075-6AP36	75,960.00
500	250	610	2	2	110 ... 127	3RT1076-6AF36	109,440.00
			2	2	220 ... 240	3RT1076-6AP36	109,440.00

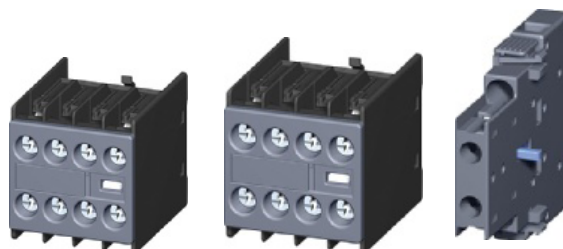
Voltage Table

Us min Us max	3RT10 5, 3RT10 6, 3RT10 7
AC/DC 23...26V	B3
AC/DC 42...48V	D3
AC/DC 110...127V	F3
AC/DC 200...220V	M3
AC/DC 220...240V	P3
AC/DC 240...277V	U3
AC/DC 380...420V	V3
AC/DC 440...480V	R3
AC/DC 500...550V	S3
AC/DC 575...600V	T3

Note: For further voltages, contact a sales representative.

3RT 2/1 Contactors for Switching Motors

Accessories



1

For Contactors	Auxiliary contact Version	Order Number	Price List TH
	   		

Auxiliary switch blocks for snapping onto the front according to EN50012

(also compliant with the requirements according to EN 50005)

Size S00 to S3, For assembling contactors with 2, 3, 4 or 5 auxiliary contacts

3RT20 1	--	1	3RH2911-1HA01	301.00
3RT20 2	--	2	3RH2911-1HA02	381.00
3RT20 3	--	3	3RH2911-1HA03	518.00
3RT20 4	1	--	3RH2911-1HA10	301.00
3RH21	1	1	3RH2911-1HA11	381.00
3RH24	1	2	3RH2911-1HA12	518.00
	1	3	3RH2911-1HA13	637.00
	2	--	3RH2911-1HA20	381.00
	2	1	3RH2911-1HA21	518.00
	2	2	3RH2911-1HA22	637.00
	3	--	3RH2911-1HA30	518.00
	3	1	3RH2911-1HA31	637.00

Auxiliary switch blocks for snapping onto the front according to EN5005

Size S00 to S3

2 or 4-pole auxiliary switch blocks for assembling contactors with
3, 5 or 6 auxiliary contacts

3RT2. 1,	4	--	--	--	3RH2911-1FA40	637.00
3RT2. 2..	2	2	--	--	3RH2911-1FA22	637.00
3RT2. 3..	--	4	--	--	3RH2911-1FA04	637.00
3RT2. 4..	--	--	1	1	3RH2911-1FB11	763.00
3RH21, 3RH24	1	1	1	1	3RH2911-1FB22	1,141.00
	--	--	2	2	3RH2911-1FC22	1,018.00

Snap-on auxiliary switch blocks according to EN50011

For assembling contactors with 2, 3, 4 or 5 auxiliary contacts

For 3RH21 40	4	--		3RH2911-1GA40	637.00
For 3RH24 40	3	1		3RH2911-1GA31	637.00
	2	2		3RH2911-1GA22	637.00
	1	3		3RH2911-1GA13	637.00
	--	4		3RH2911-1GA04	637.00

Laterally mounted auxiliary switch blocks according to EN5005

on the right and/or on the left

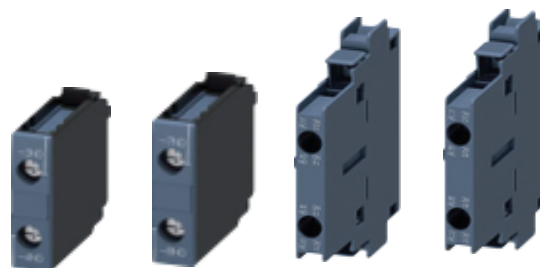
Size S00 to S3

3RT20 1	--	2	3RH2911-1DA02	572.00
3RT20 2	1	1	3RH2911-1DA11	572.00
3RT20 3	2	--	3RH2911-1DA20	572.00
3RT20 4	--	2	3RH2921-1DA02	572.00
	1	1	3RH2921-1DA11	572.00
	2	--	3RH2921-1DA20	572.00

3RT 2/1 Contactors for Switching Motors

1

Accessories



For Contactors	Auxiliary Contacts				Order Number	Price List TH
	Ident. No.	Version				
		NO	NC	NO	NC	

Auxiliary switch blocks for snapping onto the front according to EN50012

Size S6 to S12,

4-pole auxiliary switch blocks

3RT1..5...	22	2	2	--	--	3RH1921-1XA22-0MA0	705.00
3RT1..7							

1-pole auxiliary switch blocks

10	1	-	--	--	3RH1921-1CA10	206.00
01	-	1	--	--	3RH1921-1CA01	206.00
10	-	-	1	--	3RH1921-1CD10	345.00
01	-	-	--	1	3RH1921-1CA01	206.00

Laterally mounted auxiliary switch blocks according to EN50012

Size S6 to S12

First laterally mountable auxiliary switch block (right or left), 2-pole

3RT1..5,...	1	1			3RH1921-1DA11	540.00
3RT1..7,						

Second laterally mountable auxiliary switch block (right or left), 2-pole

1	1			3RH1921-1JA11	540.00
1	1				

Laterally mounted auxiliary switch blocks according to EN50005

Size S6 to S12

First laterally mountable auxiliary switch block (right or left), 2-pole

3RT1..5,...	2	-			3RH1921-1EA20	540.00
3RT1..7,	1	1			3RH1921-1EA11	540.00
	-	2			3RH1921-1EA02	540.00

Second laterally mountable auxiliary switch block (right or left), 2-pole

2	-			3RH1921-1KA20	540.00
1	1			3RH1921-1KA11	540.00
-	2			3RH1921-1KA02	540.00

3RT 2/1 Contactors for Switching Motors

Accessories

1

For Contactors	Version	Rated control supply voltage U _c : Power AC operation		consumption P of the LED at U _s mW	Order Number	Price List TH
Type		V				

Surge suppressors with LED (also for spring-type terminals)



Size S00

For plugging onto the front side of the contactors with and without auxiliary switch block

3RT2.1,	Varistors	24...48	12...24	10...120	3RT2916-1JJ00	504.00
3RH2.		48...127	24...70	20...470	3RT2916-1JK00	504.00
		127...240	70...150	50...700	3RT2916-1JL00	504.00
			150...250	160...950	3RT2916-1JP00	504.00
3RT2.1,	Noise suppression	24...70		20...470	3RT2916-1LM00	504.00
3RH2	diodes	50...150		50...700	3RT2916-1LN00	504.00
		150...250		160...950	3RT2916-1LP00	504.00



Size S0

For plugging onto the front side of the contactors (prior to mounting of the auxiliary switch block)

3RT2.2	Varistors	24...48	12...24	10...120	3RT2926-1JJ00	601.00
		48...127	24...70	20...470	3RT2926-1JK00	601.00
		127...240	70...150	50...700	3RT2926-1JL00	601.00

Size S2 and S3

For plugging onto the front side of the contactors (prior to mounting of the auxiliary switch block)

3RT2.3	Varistors	24...48	12...24	10...120	3RT2936-1JJ00	594.00
3RT2.4		48...127	24...70	20...470	3RT2936-1JK00	608.00
		127...240	70...150	50...700	3RT2936-1JL00	622.00

3RT 2/1 Contactors for Switching Motors

Accessories

1



For Contactors	Rated control supply voltage Us	Size	Time setting range t _s	Output/ auxiliary contacts	Order Number	Price List TH
Type	V		s			

Solid-state time-delay auxiliary switch blocks for snapping onto the front,
terminal designations according to DIN 46199-5

Size S00 and S3

The electrical connection between the solid-state time delay auxiliary switch and the contactor underneath is established automatically when it is snapped on and locked

With ON-delay						
3RT2..	24...240 AC / DC	0.05...100	1 CO	3RA2813-1AW10	3,139.00	
3RH21		(1, 10, 100,	1NO + 1NC	3RA2813-1FW10	3,466.00	
3RH24		selectable)				
OFF-delay with auxiliary voltage						
3RT2..	24...240 AC / DC	0.05...100	1 CO	3RA2814-1AW10	4,608.00	
3RH21		(1, 10, 100,	1NO + 1NC	3RA2814-1FW10	5,112.00	
3RH24		selectable)				
OFF-delay without auxiliary voltage						
3RT2..	24...240 AC / DC	0.05...100	1 CO	3RA2815-1AW10	3,466.00	
3RH21		(1, 10, 100,	1NO + 1NC	3RA2815-1FW10	3,816.00	
3RH24		selectable)				

Size S6 and S12

ON-delay						
3RT10,	24 AC/DC	0.05 ...1	1NO + 1NC	3RT1926-2EJ11	3,739.00	
3RT14		0.5....10		3RT1926-2EJ21	3,739.00	
		5....1000		3RT1926-2EJ31	4,127.00	
	100 ...127 AC	0.05 ...1	1NO + 1NC	3RT1926-2EC11	3,739.00	
		0.5....10		3RT1926-2EC21	3,739.00	
		5....1000		3RT1926-2EC31	4,127.00	
	200 ...240 AC	0.05 ...1	1NO + 1NC	3RT1926-2ED11	3,739.00	
		0.5....10		3RT1926-2ED21	3,739.00	
		5....1000		3RT1926-2ED31	4,127.00	
OFF-delay without control signal						
3RT10,	24 AC/DC	0.05 ...1	1NO + 1NC	3RT1926-2FJ11	4,096.00	
3RT14		0.5....10		3RT1926-2FJ21	4,096.00	
		5....1000		3RT1926-2FJ31	4,523.00	
	100 ...127 AC	0.05 ...1	1NO + 1NC	3RT1926-2FK11	4,096.00	
		0.5....10		3RT1926-2FK21	4,096.00	
		5....1000		3RT1926-2FK31	4,523.00	
	200 ...240 AC	0.05 ...1	1NO + 1NC	3RT1926-2FL11	4,096.00	
		0.5....10		3RT1926-2FL21	4,096.00	
		5....1000		3RT1926-2FL31	4,523.00	
Star-delta (wye-delta) starting (varistor integrator)						
3RT10,	24 AC/DC	1.530	1NO delayed + 1NO	3RT1926-2GJ51	4,071.00	
3RT14	100 ...127 AC	1.530	instantaneous,	3RT1926-2GC51	4,071.00	
	200 ...240 AC	1.530	dead time 50ms	3RT1926-2GD51	4,071.00	

3RT 2/1 Contactors for Switching Motors

Accessories

For Contactors	Version	Rated control supply voltage Us		Order Number	Price List TH
Type		AC operation	DC operation		
		V	V		

Surge suppressors without LED

(also for spring-type terminals)



Size S00

For plugging onto the front side of the contactors with and without auxiliary switch block

3RT2.1,	Varistors	24...48	24...70	3RT2916-1BB00	381.00
3RH2.		48...127	70...150	3RT2916-1BC00	381.00
		127...240	150...250	3RT2916-1BD00	381.00
		240...400	--	3RT2916-1BE00	381.00
		400...600	--	3RT2916-1BF00	381.00
3RT2.1,	RC Elements	24...48	24...70	3RT2916-1CB00	381.00
3RH2.		48...127	70...150	3RT2916-1CC00	381.00
		127...240	150...250	3RT2916-1CD00	381.00
		240...400	--	3RT2916-1CE00	381.00
		400...600	--	3RT2916-1CF00	381.00
3RT2.1,	Noise suppression	12...250		3RT2916-1DG00	381.00
3RH2.					

Size S0

For plugging onto the front side of the contactors (prior to mounting of the auxiliary switch block)



3RT2.2	Varistors	24...48	24...70	3RT2926-1BB00	460.00
		48...127	70...150	3RT2926-1BC00	460.00
		127...240	150...250	3RT2926-1BD00	460.00
		240...400	--	3RT2926-1BE00	460.00
		400...600	--	3RT2926-1BF00	460.00
3RT2.2	RC Elements	24...48	24...70	3RT2926-1CB00	586.00
		48...127	70...150	3RT2926-1CC00	586.00
		127...240	150...250	3RT2926-1CD00	586.00
		240...400	--	3RT2926-1CE00	586.00
		400...600	--	3RT2926-1CF00	586.00

Size S2 and S3

For plugging onto the front side of the contactors with and without auxiliary switch block



3RT2.3,	Varistors	24...48	--	3RT2936-1BB00	464.00
3RT2.4,		48...127	--	3RT2936-1BC00	486.00
		127...240	--	3RT2936-1BD00	504.00
		240...400	--	3RT2936-1BE00	640.00
		400...600	--	3RT2936-1BF00	658.00
3RT2.3,	RC Elements	24...48	24...70	3RT2936-1CB00	597.00
		48...127	70...150	3RT2936-1CC00	759.00
		127...240	150...250	3RT2936-1CD00	651.00
		240...400	--	3RT2936-1CE00	795.00
		400...600	--	3RT2936-1CF00	795.00
3RT2.4,	RC Elements	24...48	24...70	3RT2946-1CB00	586.00
		48...127	70...150	3RT2946-1CC00	741.00
		127...240	150...250	3RT2946-1CD00	630.00
		240...400	--	3RT2946-1CE00	777.00
		400...600	--	3RT2946-1CF00	777.00

Size S6 to S12

For connecting to withdrawable coil for contactors



	RC Elements			3RT1956-1CB00	1,404.00
3RT1.5		24...48	24...70	3RT1956-1CC00	1,404.00
3RT1.7		48...127	70...150	3RT1956-1CD00	1,404.00
		127...240	150...250	3RT1956-1CE00	1,404.00
		240...400	--	3RT1956-1CF00	1,404.00
		400...600	--		

3RT 2/1 Contactors for Switching Motors

Accessories

1



For Contactors	Rated control supply voltage Us	Size	Time setting range t, s	Order Number	Price List TH
Type	V		s		

OFF-delay devices for contactors with AC/DC and DC Operation

Size S00 and S3

Non-adjustable delay time

3RT2. 1.-1BF4..	110 AC/DC	S00: >0.1	3RT2916-2BK01	4,824.00
3RT2. 2.-1BF4.		S0: >0.08		
3RT2. 3.-1NF3..		S2: >0.25		
3RH2...1BF40				
3RT2. 1.-1BM4../1BP4.	220/230 AC/DC	S00: >0.1	3RT2916-2BL01	4,824.00
3RT2. 2.-1BM4./1BP4.		S0: >0.08		
3RT2. 3.-1NP3..		S2: >0.25		
3RH2...1BM40/1BP40				
3RT2. 1.-1NB3..	24 DC	S00: >0.2	3RT2916-2BE01	4,824.00
3RT2. 2.-1NB3..		S0: >0.1		
3RT2. 3.-1NB3..		S2: >0.1		
3RT2. 4.-1NB3..		S3: >0.05		
3RT244.-1NB3..				
3RH2...1BB40				

Delay blocks - For snapping onto the front of contactors

Solid-state timing relays with semiconductor output

Sizes S00 and S0

ON-delay

Two-wire design, varistor integrated		0.05...100		
3RT20 1.., 3RT20 2..	24...240 AC/DC	(1, 10, 100, selectable)	3RA2811-1CW10	2,552.00
3RH21, 3RH24				
Sizes S2 and S3	24...90	0.05...100	3RA2831-1DG10	2,800.00
3RT20 3..,	90...240 AC/DC	(1, 10, 100, selectable)	3RA2831-1DH10	2,800.00
3RT20 4..,				

Sizes S2 and S0

OFF-delay with control signal

3RT20 1.., 3RT20 2..	24...240 AC/DC	0.05...100	3RA2812-1DW10	3,362.00
3RH21, 3RH24		(1, 10, 100, selectable)		
Sizes S2 and S3	24...90	0.05...100	3RA2832-1DG10	3,636.00
3RT20 3..,	90...240 AC/DC	(1, 10, 100, selectable)	3RA2832-1DH10	3,636.00
3RT20 4..,				

Mechanical latching blocks

Size S0

For snapping onto the front of contactors

The contactor remains in the energized state even after a voltage failure

3RT202.	24 AC / DC	--	3RT2926-3AB31	3,240.00
3RT232.	110 AC/ DC	--	3RT2926-3AF31	3,240.00
3RT252.	230 AC/ DC	--	3RT2926-3AP31	3,240.00

3RT 2/1 Contactors for Switching Motors

Accessories



1

For Contactors	Time setting range t	Auxiliary Contact		Order Number	Price List TH
					
Type	s	NO	NC		

Pneumatic time-delay auxiliary switch blocks

for mounting on 3RT2 contactors

Size S0

ON-delay

3RT20 2	0.1...30	1	1	3RT2926-2PA01	4,500.00
	1...60	1	1	3RT2926-2PA11	4,500.00

OFF-delay

3RT20 2	0.1...30	1	1	3RT2926-2PR01	4,824.00
	1...60	1	1	3RT2926-2PR11	4,824.00

3RU2/1

Thermal Overload Relays



DESCRIPTION

The 3RU21 thermal overload relays up to 40A have been designed for inverse-time delayed protection of load with normal starting against excessive temperature rises due to overload or phase failure.

The 3RU11 thermal overload relays up to 100A have been designed for inverse-time delayed protection of load with normal starting against excessive temperature rises due to overload or phase failure.

STANDARDS

- IEC60947-4-1
- IEC60947-1

IMPORTANT FEATURES

- Overload and phase failure protection
- Auxiliary contacts 1 NO + 1 NC
- Manual and automatic RESET
- Switch position indicators
- TEST function
- STOP button
- Screw or spring-type terminals
- Sealable covers (optional accessory)

3RU2/1 Thermal Overload Relays

1

For Standard Application

3RU21 thermal overload relays for mounting onto contactor, CLASS 10



Size Contactor	Rating for three-phase motor, rated value kW	Current setting value of the inverse- time delayed overload release A	Short-circuit protection with fuse, type of coordination "2" operational class gG	Order Number	Price List TH
Size S00					
	0.04	0.11...0.16	0.5	3RU2116-0AB0	2,568.00
	0.06	0.14...0.2	1	3RU2116-0BB0	2,568.00
	0.06	0.18...0.25	1	3RU2116-0CB0	2,568.00
	0.09	0.22...0.32	1.6	3RU2116-0DB0	2,568.00
	0.09	0.28...0.4	2	3RU2116-0EB0	2,568.00
	0.12	0.35...0.5	2	3RU2116-0FB0	2,568.00
	0.18	0.45...0.63	2	3RU2116-0GB0	2,568.00
	0.18	0.55...0.8	4	3RU2116-0HB0	2,568.00
	0.25	0.7...1	4	3RU2116-0JB0	2,568.00
	0.37	0.9...1.25	4	3RU2116-0KB0	2,568.00
	0.55	1.1...1.6	6	3RU2116-1AB0	2,568.00
	0.75	1.4...2	6	3RU2116-1BB0	2,568.00
	0.75	1.8...2.5	10	3RU2116-1CB0	2,568.00
	1.1	2.2...3.2	10	3RU2116-1DB0	2,568.00
	1.5	2.8...4	16	3RU2116-1EB0	2,568.00
	1.5	3.5...5	20	3RU2116-1FB0	2,568.00
	2.2	4.5...6.3	20	3RU2116-1GB0	2,568.00
	3	5.5...8	25	3RU2116-1HB0	2,568.00
	4	7...10	35	3RU2116-1JB0	2,568.00
	5.5	9...12.5	35	3RU2116-1KB0	2,568.00
	7.5	11...16	40	3RU2116-4AB0	2,568.00
Size S0					
	7.5	14...20	50	3RU2126-4BB0	2,760.00
	11	17...22	63	3RU2126-4CB0	2,760.00
	11	20...25	63	3RU2126-4DB0	2,760.00
	15	23...28	63	3RU2126-4NB0	4,240.00
	15	27...32	80	3RU2126-4EB0	4,240.00
	18.5	30...26	80	3RU2126-4PB0	4,240.00
	18.5	34...40	80	3RU2126-4FB0	4,240.00

3RU2/1 Thermal Overload Relays

1

For Standard Application

3RU21 thermal overload relays for mounting onto contactor, CLASS 10



Size Contactor	Rating for three-phase motor, rated value	Current setting value of the inverse- time delayed overload release	Short-circuit protection with fuse, type of coordination "2" operational class gG	Order Number	Price List TH
	kW	A			
Size S2					
	18.5	28 ... 40	80	3RU2136-4FB0	4,720.00
	22	36 ... 45	100	3RU2136-4GB0	5,400.00
	22	40 ... 50	100	3RU2136-4HB0	6,440.00
	30	47 ... 57	100	3RU2136-4QB0	6,440.00
	30	54 ... 65	125	3RU2136-4JB0	6,440.00
	37	62 ... 73	160	3RU2136-4KB0	6,440.00
	37	70 ... 80	160	3RU2136-4RB0	7,440.00
Size S3					
	45	70 ... 90	160	3RU2146-4LB0	7,480.00
	45	80 ... 100	200	3RU2146-4MB0	9,600.00

3RU2/1 Thermal Overload Relays

For Standard Application

3RU21 thermal overload relays for stand-alone installation, CLASS 10

1



Size	Rating for	Current setting	Short-circuit protection		
Contactor	three-phase	value of the inverse-	with fuse,		
	motor,	time delayed	type of coordination "2"	Order Number	Price List
	rated value	overload release	operational class gG		TH
	kW	A			
Size S00					
	0.04	0.11...0.16	0.5	3RU2116-0AB1	3,280.00
	0.06	0.14...0.2	1	3RU2116-0BB1	3,280.00
	0.06	0.18...0.25	1	3RU2116-0CB1	3,280.00
	0.09	0.22...0.32	1.6	3RU2116-0DB1	3,280.00
	0.09	0.28...0.4	2	3RU2116-0EB1	3,280.00
	0.12	0.35...0.5	2	3RU2116-0FB1	3,280.00
	0.18	0.45...0.63	2	3RU2116-0GB1	3,280.00
	0.18	0.55...0.8	4	3RU2116-0HB1	3,280.00
	0.25	0.7...1	4	3RU2116-0JB1	3,280.00
	0.37	0.9...1.25	4	3RU2116-0KB1	3,280.00
	0.55	1.1...1.6	6	3RU2116-1AB1	3,280.00
	0.75	1.4...2	6	3RU2116-1BB1	3,280.00
	0.75	1.8...2.5	10	3RU2116-1CB1	3,280.00
	1.1	2.2...3.2	10	3RU2116-1DB1	3,280.00
	1.5	2.8...4	16	3RU2116-1EB1	3,280.00
	1.5	3.5...5	20	3RU2116-1FB1	3,280.00
	2.2	4.5...6.3	20	3RU2116-1GB1	3,280.00
	3	5.5...8	25	3RU2116-1HB1	3,280.00
	4	7...10	35	3RU2116-1JB1	3,280.00
	5.5	9...12.5	35	3RU2116-1KB1	3,280.00
	7.5	11...16	40	3RU2116-4AB1	3,280.00
Size S0					
	7.5	14...20	50	3RU2126-4BB1	3,508.00
	11	17...22	63	3RU2126-4CB1	3,508.00
	11	20...25	63	3RU2126-4DB1	3,508.00
	15	23...28	63	3RU2126-4NB1	5,040.00
	15	27...32	80	3RU2126-4EB1	5,040.00
	18.5	30...26	80	3RU2126-4PB1	5,040.00
	18.5	34...40	80	3RU2126-4FB1	5,040.00

3RU2/1 Thermal Overload Relays

1

For Standard Application

3RU21 thermal overload relays for stand-alone installation, CLASS 10 Or 10A



Size Contactor	Rating for three-phase motor, rated value kW	Current setting value of the inverse- time delayed overload release A	Short-circuit protection with fuse, type of coordination "2" operational class gG	Order Number	Price List TH
Size S2					
	22	36 ...45	100	3RU2136-4GB1	6,320.00
	22	40 ... 50	100	3RU2136-4HB1	7,520.00
	30	47 ... 57	100	3RU2136-4QB1	7,520.00
	30	54 ... 65	125	3RU2136-4JB1	7,760.00
	37	62 ... 73	160	3RU2136-4KB1	7,760.00
	37	70 ... 80	160	3RU2136-4RB1	8,720.00
Size S3					
	45	70 ...90	160	3RU2146-4LB1	8,680.00
	45	80 ...100	200	3RU2146-4MB1	10,920.00

3RU2/1 Thermal Overload Relays

1

For Standard Application Accessories

Version	Size	Order Number	Price List TH
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Terminal brackets for stand-alone installation

 3RU2916-3AA01	For separate mounting of the overload relays; screw and snap-on mounting onto TH35 standard mounting rail	S00	3RU2916-3AA01	512.00
		S0	3RU2926-3AA01	624.00
		S2	3RU2936-3AA01	844.00
		S3	3RU2946-3AA01	1,092.00
 3RU2926-3AA01				

Mechanical RESET

 3RU2900-1A with pushbutton and extension plunger	Resetting pluggers, holders and formers	S00... S3	3RU2900-1A	216.00
	Pushbuttons with extended stroke (12mm), IP65, Ø 22 mm	S00... S3	3SU1200-0FB10-0AA0	1,205.00
	Extension plungers	S00... S3	3SU1900-0KG10-0AA0	142.00
	For distance between the pushbutton and the			

Cable releases with holder for RESET

	For Ø 6.5 mm hole in the control panel; max. control panel thickness 8 mm			
	• Length 400 mm	S00... S3	3RU2900-1B	2,116.00
	• Length 600 mm	S00... S3	3RU2900-1C	2,116.00

Modules for remote RESET, electrical

	Operating range 0.85 ... 1.1 x Us, power consumption AC 80 VA, DC 70 W, ON period 0.2 ... 4 s, switching frequency 60/h			
	• 24 ... 30 V AC/DC	S00... S3	3RU1900-2AB71	1,968.00
	• 110 ... 127 V AC/DC	S00... S3	3RU1900-2AF71	1,968.00
	• 220 ... 250 V AC/DC	S00... S3	3RU1900-2AM71	1,968.00

3RV2/1

Motor Starter Protectors



DESCRIPTION

3RV2 motor starter protectors are compact, current limiting motor starter protectors which are optimized for load feeders. The motor starter protectors are used for switching and protecting three-phase motors of up to 55/45 kW at 400V AC and other loads with rated currents of up to 100A.

The 3RV2 motor starter protectors are available in four sizes:

- Size S00 - width 45 mm, max. rate current 16A at 400 VAC suitable for three-phase motors up to 7.5kW
- Size S0 - width 45 mm, max. rate current 40A at 400 VAC suitable for three-phase motors up to 18.5kW
- Size S2 - width 55 mm, max. rate current 80A at 400 VAC suitable for three-phase motors up to 37kW
- Size S3 - width 70 mm, max. rate current 100A at 400 VAC suitable for three-phase motors up to 45/55kW

3RV2 motor starter protectors can be supplied with screw terminals and spring-type terminals.

STANDARDS

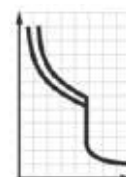
- IEC60947-4-1
- IEC60947-2
- EN50581

KEY USES

- For short-circuit protection, system protection, transformer protection and distance protection
- For motor protection (also with overload relay function)
- As main and EMERGENCY STOP switches
- For operation in IT systems (IT networks) and for fuse monitoring
- For switching of DC currents
- In areas subject to explosion hazard (ATEX)
- As circuit breakers according to UL 489 (3RV27 and 3RV28)

3RV2/1 Motor Starter Protectors

3RV2 Motor Starter Protectors, Class 10, without auxiliary switches
For motor protection



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Size	Rated current A	Suitable for 3 Ph induction motors with P kW	Setting range for thermal overload release A	Instantaneous overcurrent release A	Short circuit breaking capacity at 400 V AC kA	Order Number	Price List TH
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Size S00



0.16	0.04	0.11...0.16	2.1	100	3RV2011-0AA10	2,832.00
0.2	0.06	0.14...0.20	2.6	100	3RV2011-0BA10	2,832.00
0.25	0.06	0.18...0.25	3.3	100	3RV2011-0CA10	2,832.00
0.32	0.09	0.22...0.32	4.2	100	3RV2011-0DA10	2,853.00
0.4	0.09	0.28...0.40	5.2	100	3RV2011-0EA10	2,853.00
0.5	0.12	0.35...0.50	6.5	100	3RV2011-0FA10	2,853.00
0.63	0.18	0.45...0.63	8.2	100	3RV2011-0GA10	2,882.00
0.8	0.18	0.55...0.80	10	100	3RV2011-0HA10	3,066.00
1	0.25	0.7...1	13	100	3RV2011-0JA10	3,066.00
1.25	0.37	0.9...1.25	16	100	3RV2011-0KA10	3,245.00
1.6	0.55	1.1...1.6	21	100	3RV2011-1AA10	3,245.00
2	0.75	1.4...2	26	100	3RV2011-1BA10	3,387.00
2.5	0.75	1.8...2.5	33	100	3RV2011-1CA10	3,387.00
3.2	1.1	2.2...3.2	42	100	3RV2011-1DA10	3,387.00
4	1.5	2.8...4	52	100	3RV2011-1EA10	3,387.00
5	1.5	3.5...5	65	100	3RV2011-1FA10	3,387.00
6.3	2.2	4.5...6.3	82	100	3RV2011-1GA10	3,387.00
8	3	5.5...8	104	100	3RV2011-1HA10	3,387.00
10	4	7...10	130	100	3RV2011-1JA10	3,796.00
12.5	5.5	9...12.5	163	100	3RV2011-1KA10	3,796.00
16	7.5	10...16	208	55	3RV2011-4AA10	3,950.00

Size S0



20	7.5	14...20		55	3RV2021-4BA10	4,113.00
22	11	17...22		55	3RV2021-4CA10	4,380.00
25	11	20...25		55	3RV2021-4DA10	5,006.00
28	15	23...28		55	3RV2021-4NA10	6,341.00
32	15	27...32		55	3RV2021-4EA10	6,341.00
36	18.5	30...36		20	3RV2021-4PA10	7,593.00
40	18.5	34...40		20	3RV2021-4FA10	8,218.00

Size S2



45	22	35...45	650	65	3RV2031-4VA10	11,306.00
52	22	42...52	741	65	3RV2031-4WA10	11,556.00
59	30	49...59	845	65	3RV2031-4XA10	11,639.00
65	30	54...65	845	65	3RV2031-4JA10	11,639.00
73	37	62...73	949	65	3RV2031-4KA10	13,058.00
80	37	70...80	1040	65	3RV2031-4RA10	13,976.00

Size S3



84	45	65...84	1170	65	3RV2041-4RA10	14,810.00
93	45	75...93	1300	65	3RV2041-4YA10	14,810.00
100	45, 55	80...100	1300	65	3RV2041-4MA10	16,354.00

3RV2/1 Motor Starter Protectors

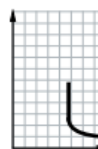
3RV2 Motor Starter Protectors, Class 10, with overload relay function (automatic RESET), without auxiliary switches
For motor protection with overload relay function



Size	Rated current A	Suitable for 3 Ph induction motors with P kW	Setting range for thermal overload release A	Instantaneous overcurrent release A	Short circuit breaking capacity at 400 V AC kA	Order Number	Price List TH
Size S00							
	0.16	0.04	0.11...0.16	2.1	100	3RV2111-0AA10	5,215.00
	0.2	0.06	0.14...0.20	2.6	100	3RV2111-0BA10	5,215.00
	0.25	0.06	0.18...0.25	3.3	100	3RV2111-0CA10	5,215.00
	0.32	0.09	0.22...0.32	4.2	100	3RV2111-0DA10	5,215.00
	0.4	0.09	0.28...0.40	5.2	100	3RV2111-0EA10	5,215.00
	0.5	0.12	0.35...0.50	6.5	100	3RV2111-0FA10	5,215.00
	0.63	0.18	0.45...0.63	8.2	100	3RV2111-0GA10	5,215.00
	0.8	0.18	0.55...0.80	10	100	3RV2111-0HA10	5,215.00
	1	0.25	0.7...1	13	100	3RV2111-0JA10	5,381.00
	1.25	0.37	0.9...1.25	16	100	3RV2111-0KA10	5,381.00
	1.6	0.55	1.1...1.6	21	100	3RV2111-1AA10	5,381.00
	2	0.75	1.4...2	26	100	3RV2111-1BA10	5,632.00
	2.5	0.75	1.8...2.5	33	100	3RV2111-1CA10	5,632.00
	3.2	1.1	2.2...3.2	42	100	3RV2111-1DA10	5,632.00
	4	1.5	2.8...4	52	100	3RV2111-1EA10	5,632.00
	5	1.5	3.5...5	65	100	3RV2111-1FA10	5,632.00
	6.3	2.2	4.5...6.3	82	100	3RV2111-1GA10	5,632.00
	8	3	5.5...8	104	100	3RV2111-1HA10	5,632.00
	10	4	7...10	130	100	3RV2111-1JA10	6,132.00
	12.5	5.5	9...12.5	163	100	3RV2111-1KA10	6,132.00
	16	7.5	11...16	208	55	3RV2111-4AA10	6,132.00
	16	7.5	11...16	208	55	3RV2121-4AA10	6,383.00
	20	7.5	14...20	260	55	3RV2121-4BA10	6,383.00
	22	11	17...22	286	55	3RV2121-4CA10	6,758.00
	25	11	20...25	325	55	3RV2121-4DA10	7,426.00
	28	15	23...28	364	55	3RV2121-4NA10	9,595.00
	32	15	27...32	400	55	3RV2121-4EA10	9,595.00
	14	5.5	9.5...14	208	65	3RV2131-4SA10	9,637.00
	17	7.5	12...17	260	65	3RV2131-4TA10	9,637.00
	20	7.5	14...20	260	65	3RV2131-4BA10	9,720.00
	25	11	18...25	325	65	3RV2131-4DA10	10,805.00
	32	15	22...32	416	65	3RV2131-4EA10	11,598.00
	36	18.5	28...36	520	65	3RV2131-4PA10	12,390.00
	40	18.5	32...40	585	65	3RV2131-4UA10	13,016.00
	45	22	35...45	650	65	3RV2131-4VA10	14,101.00
	52	22	42...52	741	65	3RV2131-4WA10	14,351.00
	59	30	49...59	845	65	3RV2131-4XA10	14,810.00
	65	30	54...65	845	65	3RV2131-4JA10	14,810.00
	73	37	62...73	949	65	3RV2131-4KA10	16,187.00
	80	37	70...80	1040	65	3RV2131-4RA10	16,771.00
Size S3, with increased switching capacity							
	40	18.5	28...40	520	100	3RV2142-4FA10	21,110.00
	50	22	36...50	650	100	3RV2142-4HA10	21,110.00
	63	30	45...63	819	100	3RV2142-4JA10	22,195.00
	75	37	57...75	975	100	3RV2142-4KA10	23,279.00
	84	45	65...84	1170	100	3RV2142-4RA10	24,114.00
	93	45	75...93	1300	100	3RV2142-4YA10	24,114.00
	100	45	80...100	1300	100	3RV2142-4MA10	24,948.00

3RV2/1 Motor Starter Protectors

3RV2 Motor Starter Protectors, Class 10, without auxiliary switches
For starter combinations



1

Size	Rated current A	Suitable for 3 Ph induction motors with P kW	Setting range for thermal overload release A	Instantaneous overcurrent release A	Short circuit breaking capacity at 400 V AC kA	Order Number	Price List TH
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Size S00 Class 10, without auxiliary switches



0.16	0.04	without	2.1	100	3RV2311-0AC10	3,133.00
0.2	0.06	without	2.6	100	3RV2311-0BC10	3,133.00
0.25	0.06	without	3.3	100	3RV2311-0CC10	3,133.00
0.32	0.09	without	4.2	100	3RV2311-0DC10	3,174.00
0.4	0.09	without	5.2	100	3RV2311-0EC10	3,174.00
0.5	0.12	without	6.5	100	3RV2311-0FC10	3,174.00
0.63	0.18	without	8.2	100	3RV2311-0GC10	3,174.00
0.8	0.18	without	10	100	3RV2311-0HC10	3,174.00
1	0.25	without	13	100	3RV2311-0JC10	3,375.00
1.25	0.37	without	16	100	3RV2311-0KC10	3,375.00
1.6	0.55	without	21	100	3RV2311-1AC10	3,375.00
2	0.75	without	26	100	3RV2311-1BC10	3,446.00
2.5	0.75	without	33	100	3RV2311-1CC10	3,446.00
3.2	1.1	without	42	100	3RV2311-1DC10	3,446.00
4	1.5	without	52	100	3RV2311-1EC10	3,446.00
5	1.5	without	65	100	3RV2311-1FC10	3,446.00
6.3	2.2	without	82	100	3RV2311-1GC10	3,446.00
8	3	without	104	100	3RV2311-1HC10	3,446.00
10	4	without	130	100	3RV2311-1JC10	3,809.00
12.5	5.5	without	163	100	3RV2311-1KC10	3,809.00
16	7.5	without	208	55	3RV2311-4AC10	3,809.00

Size S0 Class 10, without auxiliary switches



20	7.5	without	260	55	3RV2321-4BC10	3,996.00
22	11	without	286	55	3RV2321-4CC10	4,213.00
25	11	without	325	55	3RV2321-4DC10	4,839.00
28	15	without	364	55	3RV2321-4NC10	6,174.00
32	15	without	400	55	3RV2321-4EC10	6,174.00
36	18.5	without	432	20	3RV2321-4PC10	7,301.00
40	18.5	without	480	20	3RV2321-4FC10	8,051.00

Size S2



45	22	without	650	65	3RV2331-4VC10	11,097.00
52	22	without	741	65	3RV2331-4WC10	11,306.00
59	30	without	845	65	3RV2331-4XC10	11,306.00
65	30	without	845	65	3RV2331-4JC10	11,306.00
73	37	without	949	65	3RV2331-4KC10	12,808.00
80	37	without	1040	65	3RV2331-4RC10	13,600.00

Size S3

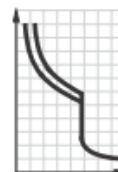


84	45	without	1170	65	3RV2341-4RC10	14,226.00
93	45	without	1300	65	3RV2341-4YC10	14,226.00
100	45, 55	without	1300	65	3RV2341-4MC10	15,811.00

3RV2/1 Motor Starter Protectors

3RV2 Motor Starter Protectors, Class 10, without auxiliary switches For transformer protection

Motor starter protectors for the protection of transformers with high inrush current



Size	Rated current A	Setting range for thermal overload release A	Instantaneous overcurrent release A	Short circuit breaking capacity at 400 V AC kA	Order Number	Price List TH
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Size S00



0.16	0.11...0.16	3.2	100	3RV2411-0AA10	3,546.00
0.2	0.14...0.20	4.2	100	3RV2411-0BA10	3,546.00
0.25	0.18...0.25	5.2	100	3RV2411-0CA10	3,546.00
0.32	0.22...0.32	6.5	100	3RV2411-0DA10	3,546.00
0.4	0.28...0.40	8.2	100	3RV2411-0EA10	3,546.00
0.5	0.35...0.50	10	100	3RV2411-0FA10	3,546.00
0.63	0.45...0.63	13	100	3RV2411-0GA10	3,546.00
0.8	0.55...0.80	16	100	3RV2411-0HA10	3,546.00
1	0.7...1	21	100	3RV2411-0JA10	3,763.00
1.25	0.9...1.25	26	100	3RV2411-0KA10	3,763.00
1.6	1.1...1.6	33	100	3RV2411-1AA10	3,763.00
2	1.4...2	42	100	3RV2411-1BA10	3,763.00
2.5	1.8...2.5	52	100	3RV2411-1CA10	3,763.00
3.2	2.2...3.2	65	100	3RV2411-1DA10	3,763.00
4	2.8...4	82	100	3RV2411-1EA10	3,763.00
5	3.5...5	104	100	3RV2411-1FA10	3,763.00
6.3	4.5...6.3	130	100	3RV2411-1GA10	3,763.00
8	5.5...8	163	100	3RV2411-1HA10	3,763.00
10	7...10	208	100	3RV2411-1JA10	4,155.00
12.5	9...12.5	260	100	3RV2411-1KA10	4,155.00
16	10...16	286	55	3RV2411-4AA10	4,155.00

Size S0



20	13...20	325	55	3RV2421-4BA10	4,380.00
22	16...22	364	55	3RV2421-4CA10	4,672.00
25	18...25	400	55	3RV2421-4DA10	5,298.00

Size S2



32	22...32	656	65	3RV2431-4EA10	10,555.00
36	28...36	820	65	3RV2431-4PA10	11,264.00
40	32...40	820	65	3RV2431-4UA10	11,973.00
45	35...45	922	65	3RV2431-4VA10	12,098.00
52	42...52	1025	65	3RV2431-4WA10	12,474.00
59	49...59	1040	65	3RV2431-4XA10	12,516.00
65	54...65	1040	65	3RV2431-4JA10	12,516.00

3RV2/1 Motor Starter Protectors

1

Accessories

Version		Contact	For motor starter protectir/circuit breakers Size	Order Number	Price List TH
	Transverse auxiliary switches	1 CO	S00...S3	3RV2901-1D	429.00
		1 NO + 1 NC		3RV2901-1E	517.00
		2 NO		3RV2901-1F	517.00
	Solid-state compatible transverse auxiliary switches	1 CO	S00...S3	3RV2901-1G	1,610.00
	Cover for transverse auxiliary switches		S00...S3	3RV2901-0H	238.00
	Lateral auxiliary switches with screw terminals mountable on the left	1NO + 1NC	S00...S3	3RV2901-1A	517.00
		2NO		3RV2901-1B	517.00
		2NC		3RV2901-1C	517.00
		2NO + 2NC		3RV2901-1J	1,172.00
	Signaling Switches One signal switch can be mounted on the left per motor starter protector Separated tripped and short- circuit alarms 1NO+ 1NC	1NO + 1NC	S00...S3	3RV2921-1M	1,001.00
	Isolator Modules Visible isolating distance for isolating individual motor starter protectors from the network, lockable in disconnected position		S00, S0	3RV2928-1A	2,144.00
			S2	3RV2938-1A	3,604.00

3RV2/1 Motor Starter Protectors

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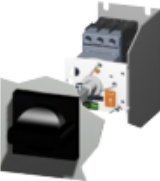
Accessories

Version	Contact	For motor starter protectir/circuit breakers Size	Order Number	Price List TH
Undervoltage trip units				
	Rated control supply voltage V AC 50 Hz			
	24	S00....S3	3RV2902-1AB0	1,560.00
	110	S00....S3	3RV2902-1AF0	1,560.00
	230	S00....S3	3RV2902-1AP0	1,560.00
	400	S00....S3	3RV2902-1AV0	1,560.00
	415	S00....S3	3RV2902-1AV1	1,560.00
	500	S00....S3	3RV2902-1AS0	1,560.00
	Rated control supply voltage V DC			
	24	S00....S3	3RV2902-1AB4	4,547.00
Undervoltage trip units with leading auxiliary contacts 2NO				
	Rated control supply voltage V AC 50 Hz			
	230	S00....S3	3RV2922-1CP0	2,136.00
	400	S00....S3	3RV2922-1CV0	2,194.00
	415	S00....S3	3RV2922-1CV1	2,194.00
	Rated control supply voltage V DC			
	24	S00....S3	3RV2922-1CB0	2,194.00
Shunt trip units				
	Rated control supply voltage V AC 50 Hz, 100% on period			
	20...24	S00....S3	3RV2902-1DB0	1,560.00
	90...110	S00....S3	3RV2902-1DF0	1,560.00
	210...240	S00....S3	3RV2902-1DP0	1,560.00
	350...415	S00....S3	3RV2902-1DV0	1,560.00
	500	S00....S3	3RV2902-1DS0	1,560.00

3RV2/1 Motor Starter Protectors

Accessories

1

	Version	Colour of handle	Version of extension shaft (mm)	For motor starter protector/circuit breakers Size	Order Number	Price List TH
	Door-coupling rotary operating mechanisms					
		Black	130	S00...S3	3RV2926-0B	2,419.00
			330	S00...S3	3RV2926-0K	2,853.00
	EMERGENCY-STOP door-coupling rotary operating mechanisms					
 3RV2926-2B		Red /	130	S00...S3	3RV2926-0C	2,736.00
		Yellow	330	S00...S3	3RV2926-0L	3,258.00
	Door-coupling rotary operating mechanisms for arduous conditions					
	Door	Grey	330	S00, S0	3RV2926-2B	4,672.00
	coupling rotary			S2	3RV2936-2B	5,089.00
	operating mechanisms			S3	3RV2946-2B	5,423.00
	Emergency	Red /	330	S00, S0	3RV2926-2C	5,089.00
	STOP	Yellow		S2	3RV2936-2C	5,590.00
	door-coupling			S3	3RV2946-2C	5,757.00
	operating mechanisms					
	Plug-in lugs			S00, S0	3RV2928-0B	1,777.00
	For screwing the motor starter protector onto mounting plates					
	For each motor starter protector 2 units are required					

3RV2/1 Motor Starter Protectors

1

Accessories

Modular Spacing	Number of motor starter protectors that can be connected			Rated Current at 690V	For motor starter protectir/circuit breakers	Order Number	Price List TH
	Without lateral accessories	With lateral auxiliary switch	incl. auxiliary release				
mm				A	Size		

Three-phase busbars

For feeding several motor starter protectors with screw terminals, mounted side by side on standard mounting rails, insulated, with touch protection

	45	2	--	--	63	S00, S0	3RV1915-1AB	517.00
		3	--	--	63	S00, S0	3RV1915-1BB	638.00
		4	--	--	63	S00, S0	3RV1915-1CB	696.00
		5	--	--	63	S00, S0	3RV1915-1DB	792.00
	55	--	2	--	63	S00, S0	3RV1915-2AB	496.00
		--	3	--	63	S00, S0	3RV1915-2BB	613.00
		--	4	--	63	S00, S0	3RV1915-2CB	692.00
		--	5	--	63	S00, S0	3RV1915-2DB	763.00
		2	--	--	108	S2	3RV1935-1A	959.00
		3	--	--	108	S2	3RV1935-1B	1,214.00
		4	--	--	108	S2	3RV1935-1C	1,426.00
	63	--	--	2	63	S00, S0	3RV1915-3AB	534.00
		--	--	4	63	S00, S0	3RV1915-3CB	692.00
	75	--	2	2	108	S2	3RV1935-3A	1,176.00
		--	3	3	108	S2	3RV1935-3B	1,397.00
		--	4	4	108	S2	3RV1935-3C	1,622.00

Version	Modular Spacing	For motor starter protectir/circuit breakers	Order Number	Price List TH
	mm			

For connecting three-phase

45

S00, S0

3RV1915-5DB

538.00

busbars for motor starter protectors of size S0 (left) to size S00 (right)



Solid or stranded	Conductor cross-section		Tightening Torque	For motor starter protectir/circuit breakers	Order Number	Price List TH
	mm ²	Finely stranded with end sleeve mm ²				
				Size		

Connection from top

2.5...25	4...16	10...4	4	S00	3RV1915-5A	517.00
2.5...25	2.5...16	10...4	3...4	S00, S0	3RV2925-5AB	534.00
2 X	2 X	2 X	4...6	S2	3RV2935-5A	976.00
(2.5...50)	(2.5...35)	(10...1/0)				
1 X	2 X	1 X				
(2.5...70)	(2.5...50)	(10...2/0)				

Connection from below

Terminal is connected in place of a switch, take space requirement into account

2.5...25	2.5...16	10...4	Input:4, Output: 2...2.5	S00, S0	3RV2915-5B	742.00
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3RH2

Contactor Relays



DESCRIPTION

3RH2 contactor relays have screw, ring terminal lug or spring-type terminals. The basic unit contains four contacts with terminal designations according to EN 50011.

The 3RH2 contactor relays are suitable for use in any climate. They are finger-safe according to EN50274.

The devices with ring terminal lug connection comply with degree of protection IP20 when fitted the related terminal cover.

STANDARDS

- IEC 60947-1, EN 60947-1
- IEC 60947-4-1, EN 60947-4-1
- IEC 60947-5-1, EN 60947-5-1

3RH2 Contactors Relays

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3RH2 Contactor Relays, 4- and 8- pole



Rated data AC-15 Operational current le up to 230 V A	Contacts Ident. No.	Version		Rated Control Supply voltage Us at 50/60 Hz VAC	Order Number	Price List TH
						
		NO	NC			

AC operation - 50/60 Hz

10	40E	4	--	24	3RH2140-1AB00	1,698.00
				110	3RH2140-1AF00	1,698.00
				230	3RH2140-1AP00	1,698.00
	31E	3	1	24	3RH2131-1AB00	1,698.00
				110	3RH2131-1AF00	1,698.00
				230	3RH2131-1AP00	1,698.00
	22E	2	2	24	3RH2122-1AB00	1,698.00
				110	3RH2122-1AF00	1,698.00
				230	3RH2122-1AP00	1,698.00

• with permanently mounted auxiliary switch block

10	44E	4	4	230	3RH2244-1AP00	2,774.00
	62E	6	2	230	3RH2262-1AP00	2,774.00

DC operation - DC solenoid system

10	40E	4	--	24	3RH2140-1BB40	1,965.00
	40E			220	3RH2140-1BM40	1,965.00
	31E	3	1	24	3RH2131-1BB40	1,965.00
	31E			220	3RH2131-1BM40	1,965.00
	22E	2	2	24	3RH2122-1BB40	1,965.00
	22E			220	3RH2122-1BM40	1,965.00

• with permanently mounted auxiliary switch block

10	44E	4	4	24	3RH2244-1BB40	3,012.00
	62E	6	2	24	3RH2262-1BB40	3,012.00

3RH2 Contactors Relays

1

3RH24 latched contactor relays, 4-pole



Rated data AC-15 Operational current le up to 230 V A	Contacts Ident. No.	Version  NO		 NC		Rated Control Supply voltage Us at 50/60 Hz VAC	Order Number	Price List TH
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AC operation - 50/60 Hz

10	40E	4	--	24	3RH2440-1AB00	5,840.00
				110	3RH2440-1AF00	5,840.00
				230	3RH2440-1AP00	5,840.00
	31E	3	1	24	3RH2431-1AB00	5,840.00
				110	3RH2431-1AF00	5,840.00
				230	3RH2431-1AP00	5,840.00
	22E	2	2	24	3RH2422-1AB00	5,840.00
				110	3RH2422-1AF00	5,840.00
				230	3RH2422-1AP00	5,840.00

DC operation - DC solenoid system

10	40E	4	--	24	3RH2440-1BB40	6,132.00
	40E			110	3RH2440-1BF40	6,132.00
	40E			220	3RH2440-1BM40	6,132.00
	31E	3	1	24	3RH2431-1BB40	6,132.00
	31E			110	3RH2431-1BF40	6,132.00
	31E			220	3RH2431-1BM40	6,132.00
	22E	2	2	24	3RH2422-1BB40	6,132.00
	22E			110	3RH2422-1BF40	6,132.00
	22E			220	3RH2422-1BM40	6,132.00

3RA23/13

Reversing Contactor Assemblies



DESCRIPTION

3RA23 contactor assemblies have screw or spring-type terminals (main and control current) and are suitable for screwing or snapping onto TH35 standard mounting rails.

The fully wired reversing contactor assemblies are suitable for use in any climate. They are finger-safe according to EN50274.

The contactor assemblies size 500 and 50 each consist of two contactors with the same power, with one NC contact (S00) or one NO contact and one NC contact (S0) in the basic unit.

The contactors are mechanically and electrically interlocked (NC contact interlock).

For motor protection, either 3RU2 or 3RB3 overload relays for direct mounting or stand-alone installation, or 3RN1 thermistor motor protection releases must be ordered separately.

The reversing contactor assemblies with communication interface are required for mounting the function modules for connection to the control system

STANDARDS

- IEC60947-4-1
- IEC60947-5-1, EN50581:2012

3RA23/13 Reversing Contactor Assemblies



1

Size	Rated data AC-2 and AC-3 Operational current le up to	Rating of introduction motors at 50 Hz and	Rated Control Supply voltage Us at 50/60 Hz	Order Number	Price List TH
	400 V A	400V kW	V		

AC operation, 50/60 Hz

S00	7	3	110	3RA2315-8XB30-1AF0	4,284.00
			230	3RA2315-8XB30-1AP0	4,284.00
	9	4	110	3RA2316-8XB30-1AF0	4,500.00
			230	3RA2316-8XB30-1AP0	4,500.00
	12	5.5	110	3RA2317-8XB30-1AF0	5,220.00
			230	3RA2317-8XB30-1AP0	5,220.00
S0	16	7.5	110	3RA2318-8XB30-1AF0	6,048.00
			230	3RA2318-8XB30-1AP0	6,048.00
	12	5.5	110	3RA2324-8XB30-1AG2	6,048.00
			230	3RA2324-8XB30-1AL2	6,048.00
	17	7.5	110	3RA2325-8XB30-1AG2	7,308.00
			230	3RA2325-8XB30-1AL2	7,308.00
	25	11	110	3RA2326-8XB30-1AG2	8,964.00
			230	3RA2326-8XB30-1AL2	8,964.00
	32	18.5	110	3RA2327-8XB30-1AG2	11,916.00
			230	3RA2327-8XB30-1AL2	11,916.00
S2	38	18.5	110	3RA2328-8XB30-1AG2	13,068.00
			230	3RA2328-8XB30-1AL2	13,068.00
	40	18.5	110	3RA2335-8XB30-1AG2	14,040.00
			230	3RA2335-8XB30-1AL2	14,040.00
	50	22	110	3RA2336-8XB30-1AG2	17,064.00
			230	3RA2336-8XB30-1AL2	17,064.00
	65	30	110	3RA2337-8XB30-1AG2	22,932.00
			230	3RA2337-8XB30-1AL2	22,932.00
	80	37	110	3RA2338-8XB30-1AG2	25,164.00
			230	3RA2338-8XB30-1AL2	25,164.00
S3	80	37	110	3RA2345-8XB30-1AG2	28,224.00
			230	3RA2345-8XB30-1AL2	28,224.00
	95	45	110	3RA2346-8XB30-1AG2	34,272.00
			230	3RA2346-8XB30-1AL2	34,272.00
	110	55	110	3RA2347-8XB30-1AG2	39,240.00
			230	3RA2347-8XB30-1AL2	39,240.00

Note:

* For further voltages, contact a sales representative

3RA23/13 Reversing Contactor Assemblies

1



Size	Rated data AC-2 and AC-3 Operational current le up to	Rating of introduction motors at 50 Hz and	Rated Control Supply voltage Us at 50/60 Hz	Order Number	Price List TH
	400 V A	400V kW	V		

DC operation

S00	7	3	24	3RA2315-8XB30-1BB4	4,752.00
	9	4	24	3RA2316-8XB30-1BB4	5,040.00
	12	5.5	24	3RA2317-8XB30-1BB4	5,724.00
	16	7.5	24	3RA2318-8XB30-1BB4	8,820.00
S0	12	5.5	24	3RA2324-8XB30-1BB4	9,756.00
	17	7.5	24	3RA2325-8XB30-1BB4	11,232.00
	25	11	24	3RA2326-8XB30-1BB4	12,888.00
	32	15	24	3RA2327-8XB30-1BB4	16,668.00
	38	18.5	24	3RA2328-8XB30-1BB4	18,108.00

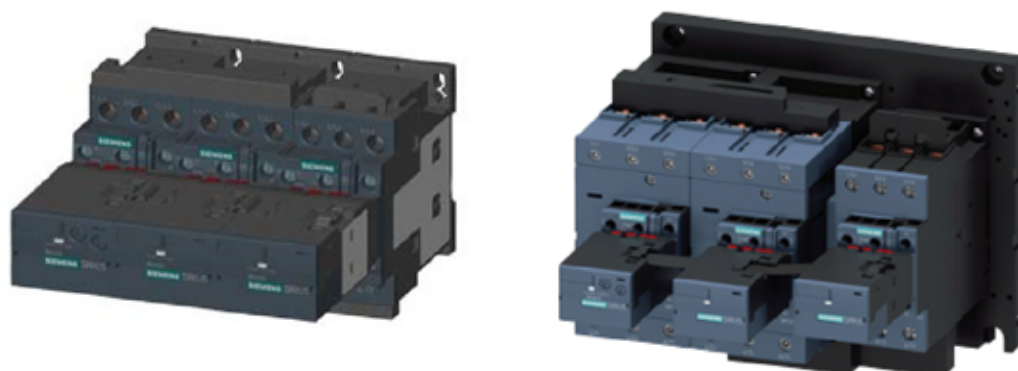
AC/DC operation

S2	40	18.5	20...33 AC/DC	3RA2335-8XB30-1NB3	19,944.00
	50	22	20...33 AC/DC	3RA2336-8XB30-1NB3	25,020.00
	65	30	20...33 AC/DC	3RA2337-8XB30-1NB3	33,120.00
	80	37	20...33 AC/DC	3RA2338-8XB30-1NB3	34,668.00
S3	80	37	20...33 AC/DC	3RA2345-8XB30-1NB3	37,800.00
	95	45	20...33 AC/DC	3RA2346-8XB30-1NB3	43,560.00
	110	55	20...33 AC/DC	3RA2347-8XB30-1NB3	44,640.00

Note: For further voltages, contact a sales representative.

3RA24/14

Reversing Contactor Assemblies



DESCRIPTION

These 3RA24 contactor assemblies for star-delta starting are designed for standard applications.

The 3RA24 contactor assemblies for star-delta starting can be ordered as follows:

Sizes S00 and S0:

- Full wired and tested, with electrical and mechanical interlock
- As individual parts for customer assembly

A dead interval of 50ms on reversing is already integrate in the function module for star-delta starting.

The 3RA24 contactor assemblies have screw or spring-type TH 35 standard mounting rails.

With the fully wired and tested 3RA24 contactor assemblies, the auxiliary contacts included in the basic devices are unassigned.

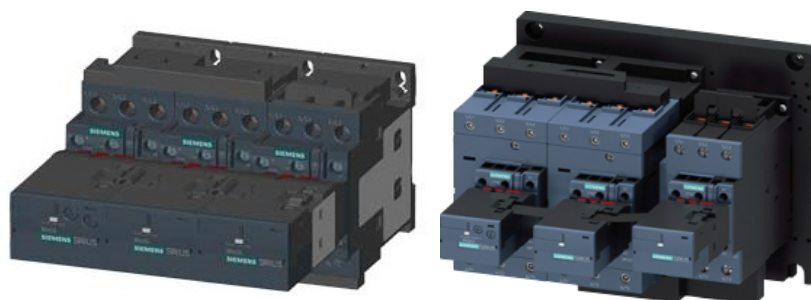
There is also a range of accessories (lateral auxiliary switch blocks, etc.) that must be ordered separately.

STANDARDS

- IEC60947-4-1
- IEC60947-5-1
- EN50581:2012

3RA24/14 Reversing Contactor Assemblies

1



Size	Rated data AC-2 and AC-3 Operational current le up to	Rating of introduction motors at 50 Hz and	Rated Control Supply voltage Us at 50/60 Hz	Order Number	Price List TH
	400 V A	400V kW	V		

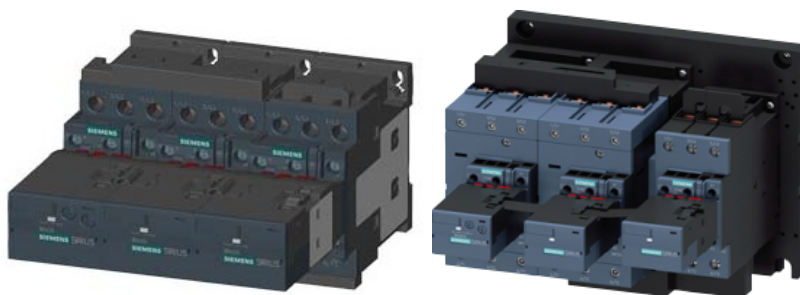
AC operation, 50/60 Hz

S00,S00,S00	12	5.5	110	3RA2415-8XF31-1AF0	13,500.00
			230	3RA2415-8XF31-1AP0	13,500.00
	16	7.5	110	3RA2416-8XF31-1AF0	14,436.00
			230	3RA2416-8XF31-1AP0	14,436.00
S0,S0,S0	25	11	110	3RA2417-8XF31-1AF0	15,444.00
			230	3RA2417-8XF31-1AF0	15,444.00
	25	11	110	3RA2423-8XF32-1AG2	16,524.00
			230	3RA2423-8XF32-1AL2	16,524.00
	32 / 40	15 / 18.5	110	3RA2425-8XF32-1AG2	19,404.00
			230	3RA2425-8XF32-1AL2	19,404.00
S2,S2,S0	50	22	110	3RA2426-8XF32-1AG2	23,760.00
			230	3RA2426-8XF32-1AL2	23,760.00
	50 / 65	22 / 30	110	3RA2434-8XF32-1AG2	29,160.00
			230	3RA2434-8XF32-1AL2	29,160.00
	80	37	110	3RA2435-8XF32-1AG2	30,672.00
			230	3RA2435-8XF32-1AL2	30,672.00
	86	45	110	3RA2436-8XF32-1AG2	31,248.00
			230	3RA2436-8XF32-1AL2	31,248.00
S3,S3,S2	115	55	110	3RA2437-8XF32-1AG2	37,440.00
			230	3RA2437-8XF32-1AL2	37,440.00
	115	55	110	3RA2444-8XF32-1AG2	41,760.00
			230	3RA2444-8XF32-1AL2	41,760.00
	150	75	110	3RA2445-8XF32-1AG2	43,560.00
			230	3RA2445-8XF32-1AL2	43,560.00
	160	90	110	3RA2446-8XF32-1AG2	57,600.00
			230	3RA2446-8XF32-1AL2	57,600.00

Note: For further voltages, contact a sales representative.

3RA24/14 Reversing Contactor Assemblies

1



Size	Rated data AC-2 and AC-3 Operational current le up to	Rating of introduction motors at 50 Hz and	Rated Control Supply voltage Us at 50/60 Hz	Order Number	Price List TH
	400 V A	400V kW	V		

DC operation

S00,S00,S00	12	5.5	24	3RA2415-8XF31-1BB4	14,256.00
	16	7.5	24	3RA2416-8XF31-1BB4	15,192.00
	25	11	24	3RA2417-8XF31-1BB4	18,396.00
S0,S0,S0	25	11	24	3RA2423-8XF32-1BB4	21,996.00
	32/40	15 /18.5	24	3RA2425-8XF32-1BB4	25,056.00
	50	22	24	3RA2426-8XF32-1BB4	30,492.00

AC/DC operation

S2,S2,S0	50/65	22/30	24...33 AC/DC	3RA2434-8XF32-1NB3	38,880.00
	80	37	24...33 AC/DC	3RA2435-8XF32-1NB3	41,040.00
	86	45	24...33 AC/DC	3RA2436-8XF32-1NB3	41,400.00
	115	55	24...33 AC/DC	3RA2437-8XF32-1NB3	50,760.00
S3,S3,S2	115	55	24...33 AC/DC	3RA2444-8XF32-1NB3	50,040.00
	150	75	24...33 AC/DC	3RA2445-8XF32-1NB3	56,880.00
	160	90	24...33 AC/DC	3RA2446-8XF32-1NB3	68,400.00

Note: For further voltages, contact a sales representative.

3RF34

Solid-state contactors



DESCRIPTION

The solid-state contactors for switching motors are intended for frequent switching on and off three-phase current operating mechanisms up to 7.5 kW and reversing up to 3.0 kW. The devices are constructed with complete insulation and can be mounted directly on SIRIUS motor starter protectors, overload relays and current monitoring relays, resulting in a very simple integration into motor feeders. These three-phase solid-state contactors are equipped with a two-phase control which is particularly suitable for typical motor current circuits without connecting to the neutral conductor.

STANDARDS

- IEC60947-4-1
- IEC60947-4-2

IMPORTANT FEATURES

- Insulated enclosure with integrated heat sink
- Degree of protection IP20
- Integrated mounting foot to snap on a standard mounting rail or for assembly onto a support plate
- Variety of connection methods
- Plug-in control connection
- Display via LEDs
- Wide voltage range for AC control supply voltage

3RF34 Solid-State Contactors

1

Solid-state contactors, three -phase



Rated Operational current I _e	Rated Power at I _e and U _e	Rated Control Supply voltage U _s at 50/60 Hz	Order Number	Price List TH
A	400V kW	V		

Motor contactors Instantaneous switching - Two-phase Controlled

Rated operational voltage U_s

48....480 V AC

5.2	2.2	24 DC	3RF3405-1BB04	16,912.00
9.2	4.0		3RF3410-1BB04	18,698.00
12.5	5.5		3RF3412-1BB04	20,671.00
16	7.5		3RF3416-1BB04	22,550.00
5.2	2.2	110... 230 AC	3RF3405-1BB24	17,570.00
9.2	4.0		3RF3410-1BB24	19,073.00
12.5	5.5		3RF3412-1BB24	21,516.00
16	7.5		3RF3416-1BB24	22,926.00

Rated operational voltage U_s

48....600 V AC, blocking voltage 1600V

5.2	2.2	24 DC	3RF3405-1BB06	19,543.00
9.2	4.0		3RF3410-1BB06	21,986.00
12.5	5.5		3RF3412-1BB06	24,241.00
16	7.5		3RF3416-1BB06	26,496.00
5.2	2.2	110... 230 AC	3RF3405-1BB26	20,107.00
9.2	4.0		3RF3410-1BB26	22,268.00
12.5	5.5		3RF3412-1BB26	24,805.00
16	7.5		3RF3416-1BB26	26,966.00

3TC

Special Application Contactors



DESCRIPTION

The 3TC contactors are suitable for use in any climate. They are suitable for switching and controlling DC motors as well as all other DC circuits.

The solenoid excitation is configured for a particularly large operating range. It is between 0.7 or 0.8 and 1.2 x Us.

The contactors are finger-safe according to IEC 60529. Terminal covers may have to be fitted onto the connecting bars depending on the configuration with other devices.

The DC motor ratings given in the tables are applicable to the DC-3 and DC-5 utilization categories with 2-pole switching of the load or with the two conducting paths of the contactor connected in series.

STANDARDS

- IEC/EN 60947-1
- IEC/EN 60947-4-1
- IEC/EN 60947-5-1 (auxiliary switches)

IMPORTANT FEATURES

- The contactors are suitable for switching and controlling DC motors as well as all other DC circuits.
- For operation in installations which are subject both to considerable variations in the control voltage and to high ambient temperatures, e.g. in railway applications.
- The permissible ambient temperature for operation of the contactors (across the full coil operating range) is -50 to +70 °C.
- The solenoid coils of the contactors have an extended coil operating range from 0.7 to 1.25 x Us and are fitted as standard with varistors to provide protection against overvoltage.

3TC Contactors for Special Application

Contactors for Switching DC voltage



1

Size	Rated data DC-3 and DC-51 Operational current I _e at	Rating of DC motors at					Auxiliary Contact Version		Rated Control Supply voltage U _s	Order Number	Price List TH
		400 V A	110V kW	220V kW	440V kW	600V kW	750V kW	NO NC			

3TC44 to 3TC56 two-pole contactors

DC operation

Screw and snap-on mounting onto TH35 standard mounting rail

2	32	2.5	5	9	9	4	2	2	24 DC	3TC4417-0AB4	11,088.00
									110 DC	3TC4417-0AF4	11,088.00
									220DC	3TC4417-0AM4	11,088.00
4	75	6.5	13	27	38	45	2	2	24 DC	3TC4817-0AB4	39,960.00
									110 DC	3TC4817-0AF4	39,960.00
									220DC	3TC4817-0AM4	39,960.00
8	220	20	41	82	110	110	2	2	24 DC	3TC5217-0AB4	61,200.00
									110 DC	3TC5217-0AF4	61,200.00
									220DC	3TC5217-0AM4	61,200.00
12	400	35	70	140	200	200	2	2	24 DC	3TC5617-0AB4	195,840.00
									110 DC	3TC5617-0AF4	195,840.00
									220DC	3TC5617-0AM4	195,840.00

AC operation, 50 Hz

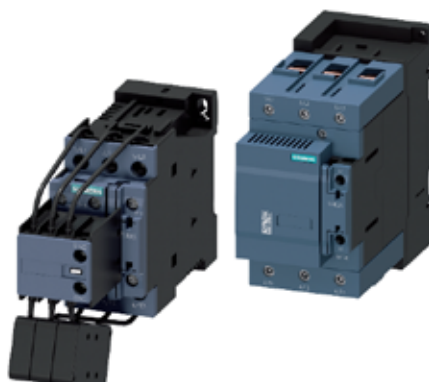
Screw and snap-on mounting onto TH35 standard mounting rail

2	32	2.5	5	9	9	4	2	2	220/230 AC	3TC4417-0BP0	7,776.00
									110/110 AC	3TC4417-0BF0	7,776.00
4	75	6.5	13	27	38	45	2	2	220/230 AC	3TC4817-0BP0	31,248.00
									110/110 AC	3TC4817-0BF0	31,248.00
8	220	20	41	82	110	110	2	2	220/230 AC	3TC5217-0BP0	52,200.00
									110/110 AC	3TC5217-0BF0	52,200.00
12	400	35	70	140	200	200	2	2	220/230 AC	3TC5617-0BP0	154,440.00
									110/110 AC	3TC5617-0BF0	154,440.00

Note: For further voltages, contact a sales representative.

3RT26

Capacity Contactors



DESCRIPTION

The 3RT26 contactors are suitable for use in any climate and they are finger-safe according to IEC 60529.

The 3RT26 contactors for capacitive loads (AC-6b) are special versions of the 3RT20 contactors in sizes S00 to S3 that are configured for switching banks of capacitors.

They are designed to convey the inrush current in such applications and are weld-resistant in compliance with the technical specifications.

The 3RT26 contactors are suitable for choked and unchoked capacitors. Besides switching power capacitors in reactive-current compensation systems, they are also used for switch converters

In the case of 3RT26 contactors, the precharging resistors are an integral component of the contactor. The precharging resistors are activated via leading auxiliary contacts before the main contact close. During switching, after attenuation of the peak current, they are decoupled again. Attenuation of the inrush current peaks also reduces interfering harmonics in the supply.

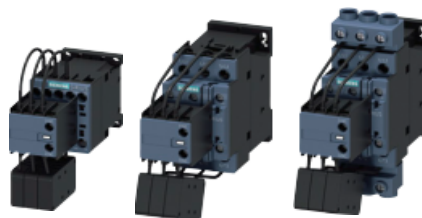
STANDARDS

- IEC 60947-1, EN 60947-1
- IEC 60947-4-1, EN 60947-4-1
- IEC 60947-5-1, EN 60947-5-1
- IEC 60831-1, EN 60831-1
- IEC 61921, EN 61921

3RT26 Contactors for Capacitive Loads

1

3RT26 contactors for capacitive loads (AC-6b) , 3-Pole
AC Coil



Utilization category AC-6b Switching AC capacitors at an ambient temperature of 60°C				Auxiliary contacts		Rated Control Supply voltage Us		Order Number	Price List TH
Capacitor rating at operation voltage 50/60 Hz				NO	NC	50 Hz AC	50/60 Hz AC		
at 230 V	at 400V	at 500V	at 600V			V	V		
kvar	kvar	kvar	kvar						

Size S00

0...7.2	0...12.5	0...15	0...21	1	1	--	24	3RT2617-1AB03	4,104.00
						--	110	3RT2617-1AF03	4,104.00
						--	230	3RT2617-1AP03	4,104.00
0...7.2	0...12.5	0...15	0...21	0	2	--	24	3RT2617-1AB05	4,104.00
						--	110	3RT2617-1AF05	4,104.00
						--	230	3RT2617-1AP05	4,104.00

Size S0

3...9.6	6...16.7	7...21	10...29	1	2	24	--	3RT2625-1AB05	3,740.00
						110	--	3RT2625-1AF05	3,740.00
						230	--	3RT2625-1AP05	3,740.00
4...11.5	7...20	8...25	11...34	1	2	24	--	3RT2626-1AB05	4,180.00
						110	--	3RT2626-1AF05	4,180.00
						230	--	3RT2626-1AP05	4,180.00
5...14	8...25	10...31	14...43	1	2	24	--	3RT2627-1AB05	5,060.00
						110	--	3RT2627-1AF05	5,060.00
						230	--	3RT2627-1AP05	5,060.00
6...19	11...33	14...41	19...57	1	2	24	--	3RT2628-1AB05	6,600.00
						110	--	3RT2628-1AF05	6,600.00
						230	--	3RT2628-1AP05	6,600.00

Remarks

Selection of Coil Voltage

3RT26 - 1AXXX

↑
coil voltage

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

Contactor Type Rated control supply Voltage Us	3RT26 1, 3RT26 2, 3RT26 3, 3RT26 4	
Magnetic coils for 50 and 60 Hz		
24 V AC	B0	C2
220 V AC	P0	N2
230 V AC	V0	L2

3RT26 Contactors for Capacitive Loads

1

**3RT26 contactors for capacitive loads (AC-6b) , 3-Pole
AC Coil**



Utilization category AC-6b Switching AC capacitors at an ambient temperature of 60°C				Auxiliary contacts		Rated Control Supply voltage Us		Order Number	Price List TH
Capacitor rating at operation voltage 50/60 Hz						50 Hz AC			
at 230 V	at 400V	at 500V	at 600V			V			
kvar	kvar	kvar	kvar	NO	NC				

Size S2

10...29	17...50	21...63	29...86	1	1	24	3RT2636-1AB03	10,450.00
						110	3RT2636-1AF03	10,450.00
						230	3RT2636-1AP03	10,450.00
10...29	17...50	21...63	29...86	0	2	24	3RT2636-1AB05	13,176.00
						110	3RT2636-1AF05	13,176.00
						230	3RT2636-1AP05	13,176.00
14...43	25...75	31...94	43...129	1	1	24	3RT2637-1AB03	14,300.00
						110	3RT2637-1AF03	14,300.00
						230	3RT2637-1AP03	14,300.00
14...43	25...75	31...94	43...129	0	2	24	3RT2637-1AB05	17,676.00
						110	3RT2637-1AF05	17,676.00
						230	3RT2637-1AP05	17,676.00

Size S3

14...43	25...75	31...94	43...129	1	1	24	3RT2645-1AB03	18,756.00
						110	3RT2645-1AF03	18,756.00
						230	3RT2645-1AP03	18,756.00
14...43	25...75	31...94	43...129	0	2	24	3RT2645-1AB05	18,756.00
						110	3RT2645-1AF05	18,756.00
						230	3RT2645-1AP05	18,756.00
19...57	33...100	41...125	57...172	1	1	24	3RT2646-1AB03	21,230.00
						110	3RT2646-1AF03	21,230.00
						230	3RT2646-1AP03	21,230.00
19...57	33...100	41...125	57...172	0	2	24	3RT2646-1AB05	26,064.00
						110	3RT2646-1AF05	26,064.00
						230	3RT2646-1AP05	26,064.00

Remarks

Selection of Coil Voltage
3RT26 - 1AXXX



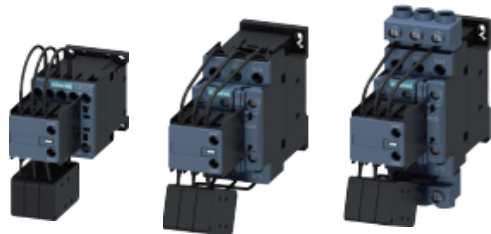
**Rated control supply voltages (the 10th and 11th position of the
order number must be changed)**

Contactor Type	3RT26 1, 3RT26 2, 3RT26 3, 3RT26 4	
Rated control	Magnetic coils for 50 and 60 Hz	
24 V AC	B0	C2
220 V AC	P0	N2
230 V AC	V0	L2

3RT26 Contactors for Capacitive Loads

1

3RT26 contactors for capacitive loads (AC-6b) , 3-Pole
DC Coil



Utilization category AC-6b Switching AC capacitors at an ambient temperature of 60°C				Auxiliary contacts		Rated Control Supply voltage Us		Order Number	Price List TH
Capacitor rating at operation voltage 50/60 Hz						50 Hz AC			
at 230 V	at 400V	at 500V	at 600V			V			
kvar	kvar	kvar	kvar	NO	NC				

Size S00

0...7.2	0...12.5	0...15	0...21	1	1	24	3RT2617-1BB43	6,084.00
						110	3RT2617-1BF43	6,084.00
0...7.2	0...12.5	0...15	0...21	0	2	24	3RT2617-1BB45	6,084.00
						110	3RT2617-1BF45	6,084.00
3...9.6	6...16.7	7...21	10...29	1	2	24	3RT2625-1BB45	6,948.00
						110	3RT2625-1BF45	6,948.00
14...43	25...75	31...94	43...129	0	2	24	3RT2626-1BB45	7,668.00
						110	3RT2626-1BF45	7,668.00

Size S0

3...9.6	6...16.7	7...21	10...29	1	2	24	3RT2625-1BB45	6,948.00
						110	3RT2625-1BF45	6,948.00
4...11.5	7...20	8...25	11...34	1	2	24	3RT2626-1BB45	7,668.00
						110	3RT2626-1BF45	7,668.00
5...14	8...25	10...31	14...43	1	2	24	3RT2627-1BB45	9,468.00
						110	3RT2627-1BF45	9,468.00
6...19	11...33	14...41	19...57	0	2	24	3RT2628-1BB45	12,240.00
						110	3RT2628-1BF45	12,240.00

Remarks

Selection of Coil Voltage

3RT26 - 1AXXX



Rated control supply voltages (the 10th and 11th position of the order number must be changed)

Contactor Type	3RT26 1, 3RT26 2, 3RT26 3, 3RT26 4
Rated control supply Voltage Us	
DC Operation	
24 V AC	B4
110 V AC	F4

3RT26 Contactors for Capacitive Loads

1

**3RT26 contactors for capacitive loads (AC-6b) , 3-Pole
AC / DC Coil**



Utilization category AC-6b Switching AC capacitors at an ambient temperature of 60°C				Auxiliary contacts		Rated Control Supply voltage U_s		Order Number	Price List TH
Capacitor rating at operation voltage 50/60 Hz						50 Hz AC or DC			
at 230 V	at 400V	at 500V	at 600V			V			
kvar	kvar	kvar	kvar	NO	NC				

Size S0

3...9.6	6...16.7	7...21	10...29	1	2	21...28	3RT2625-1NB35	8,316.00
						95...130	3RT2625-1NF35	8,316.00
						200...280	3RT2625-1NP35	8,316.00
4...11.5	7...20	8...25	11...34	1	2	21...28	3RT2626-1NB35	9,288.00
						95...130	3RT2626-1NF35	9,288.00
						200...280	3RT2626-1NP35	9,288.00
5...14	8...25	10...31	14...43	1	2	21...28	3RT2627-1NB35	11,304.00
						95...130	3RT2627-1NF35	11,304.00
						200...280	3RT2627-1NP35	11,304.00
6...19	11...33	14...41	19...57	1	2	21...28	3RT2628-1NB35	14,688.00
						95...130	3RT2628-1NF35	14,688.00
						200...280	3RT2628-1NP35	14,688.00

Size S2

10...29	17...50	21...63	29...86	0	2	20...33	3RT2636-1NB35	19,728.00
						83...155	3RT2636-1NF35	19,728.00
						175...280	3RT2636-1NP35	19,728.00
14...43	25...75	31...94	43...129	0	2	20...33	3RT2637-1NB35	26,460.00
						83...155	3RT2637-1NF35	26,460.00
						175...280	3RT2637-1NP35	26,460.00

Size S3

14...43	25...75	31...94	43...129	0	2	20...33	3RT2645-1NB35	28,116.00
						83...155	3RT2645-1NF35	28,116.00
						175...280	3RT2645-1NP35	28,116.00
19...57	33...100	41...125	57...172	0	2	20...33	3RT2637-1NB35	26,460.00
						83...155	3RT2637-1NF35	26,460.00
						175...280	3RT2637-1NP35	26,460.00

3RT23

4-pole Contactors



DESCRIPTION

In sizes S0 to S3, the 3RT23 contactors have two auxiliary contacts with 1 NO + 1 NC

The contactors are suitable:

- For switching resistive loads.
- For disconnecting from power systems (with neutral conducted to be switched)
- For system transfers when alternative AC power supplies are used.
- 'For use as contactors which only carry current and do not have to switch in case of inductive loads e.g. upstream of frequency converters for variable speed drives.
- 'For switching mixed loads in distribution systems (e.g. for supplying heaters, lamps, motors, PC power supply units) with $p.f > 0.8$ according to IEC 60947-4-1 test conditions for utilization category AC-1.

STANDARDS

- IEC 60947-1, EN 60947-1
- IEC 60947-4-1, EN 60947-4-1
- IEC 60947-5-1, EN 60947-5-1

3RT23 Contactors for Special Applications

3RT23 Contactors , 4-pole AC Coil



Rated data AC-1 tu: 40 / 60 °C Operational current le up to 690V A	Auxiliary Version		Rated Control		Order Number	Price List TH	
	Ident. No.	contacts	Supply				
		 NO	 NC	voltage Us			
				at 50/60 Hz			50Hz
				VAC	VAC		

Size S00

18 / 16	-	-	-	24	-	3RT2316-1AB00	1,659.00
				110	-	3RT2316-1AF00	1,659.00
				230	-	3RT2316-1AP00	1,659.00
22 / 20	-	-	-	24	-	3RT2317-1AB00	2,008.00
				110	-	3RT2317-1AF00	2,008.00
				230	-	3RT2317-1AP00	2,008.00

Size S0

35 / 30	11	1	1	-	24	3RT2325-1AB00	3,006.00
				-	110	3RT2325-1AF00	3,006.00
				-	230	3RT2325-1AP00	3,006.00
40 / 35	11	1	1	-	24	3RT2326-1AB00	3,960.00
				-	110	3RT2326-1AF00	3,960.00
				-	230	3RT2326-1AP00	3,960.00
50 / 42	11	1	1	-	24	3RT2327-1AB00	5,472.00
				-	110	3RT2327-1AF00	5,472.00
				-	230	3RT2327-1AP00	5,472.00

Size S2

60 / 55	11	1	1	-	24	3RT2336-1AB00	7,992.00
				-	110	3RT2336-1AF00	7,992.00
				-	230	3RT2336-1AP00	7,992.00
110 / 95	11	1	1	-	24	3RT2337-1AB00	11,592.00
				-	110	3RT2337-1AF00	11,592.00
				-	230	3RT2337-1AP00	11,592.00

Size S3

110 / 100	11	1	1	-	24	3RT2344-1AB00	13,356.00
				-	110	3RT2344-1AF00	13,356.00
				-	230	3RT2344-1AP00	13,356.00
140 / 130	11	1	1	-	24	3RT2346-1AB00	17,280.00
				-	110	3RT2346-1AF00	17,280.00
				-	230	3RT2346-1AP00	17,280.00
160 / 140	11	1	1	-	24	3RT2348-1AB00	20,304.00
				-	110	3RT2348-1AF00	20,304.00
				-	230	3RT2348-1AP00	20,304.00

Remarks

Selection of Coil Voltage

3RT2316 - 1AXXX

↑
coil
voltage

Rated control supply voltages

(the 10th and 11th position of the order number must be changed)

Contactor Type	3RT23 1	3RT23 2, 3RT23 3, 3RT23 4
Rated control supply Voltage Us		
Magnetic coils for 50 and 60 Hz		
24 V AC	B0	C2
42 V AC	D0	D2
48 V AC	H0	H2
110 V AC	F0	G2
220 V AC	N2	N2
230 V AC	P0	L2

3RT23 Contactors for Special Applications

1

3RT23 Contactors , 4-pole
AC Coil , Version for AC-3 motor loads



Rated data AC-2 / AC-3 tu: 60 °C	Rated data AC-1 tu: 40 / 60 °C	Auxiliary contacts	Version	Rated Control Supply voltage Us at 50 Hz	Order Number	Price List TH
Operational current le up to 4000V A	Operational current le up to 690V A	Ident. No.	NO NC	VAC		
Size S0						
32	40 / 35	11	1	1	230	3RT2326-1AP00-4AA0 4,356.00
Size S2						
50	60 / 55	11	1	1	230	3RT2336-1AP00-4AA0 8,352.00
Size S3						
95	110 / 100	11	1	1	230	3RT2346-1AP00-4AA0 18,504.00

Remarks

Selection of Coil Voltage
3RT2316 - 1AXXX
↑
coil voltage

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

Contactor Type	3RT23 1	3RT23 2, 3RT23 3, 3RT23 4
Rated control supply Voltage Us		
Magnetic coils for 50 and 60 Hz		
24 V AC	B0	C2
42 V AC	D0	D2
48 V AC	H0	H2
110 V AC	F0	G2
220 V AC	N2	N2
230 V AC	P0	L2

Note: For further voltages, contact a sales representative.

3RT23 Contactors for Special Applications

3RT23 Contactors , 4-pole DC Coil



Rated data AC-1 tu: 40 / 60 °C Operational current le up to 690V A	Auxiliary contacts Ident. No.	Version NO NC	Rated Control Supply voltage Us VDC	Order Number	Price List TH
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Size S00

18 / 16	-	-	-	24	3RT2316-1BB40	1,900.00
				220	3RT2316-1BM40	1,900.00
22 / 20	-	-	-	24	3RT2317-1BB40	2,275.00
				220	3RT2317-1BM40	2,275.00

Size S0

35 / 30	11	1	1	24	3RT2325-1BB40	4,968.00
				220	3RT2325-1BM40	4,968.00
40 / 35	11	1	1	24	3RT2326-1BB40	5,904.00
				220	3RT2326-1BM40	5,904.00
50 / 42	11	1	1	24	3RT2327-1BB40	7,992.00
				220	3RT2327-1BM40	7,992.00

Remarks

Selection of Coil Voltage

3RT2316 - 1AXXX

↑
coil
voltage

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

Contactor Type	3RT23 1	3RT23 2, 3RT23 3, 3RT23 4
Rated control supply Voltage Us		
Magnetic coils for 50 and 60 Hz		
24 V AC	B0	C2
42 V AC	D0	D2
48 V AC	H0	H2
110 V AC	F0	G2
220 V AC	N2	N2
230 V AC	P0	L2

3RT23 Contactors for Special Applications

3RT23 Contactors , 4-pole AC / DC Coil

1



Rated data AC-1 tu: 40 / 60 °C Operational current le up to 690V A	Auxiliary contacts Ident. No.	Version	Rated Control Supply voltage Us VDC	Order Number	Price List TH
		  NO NC			

Size S2

60 / 55	11	1	1	20...33	3RT2336-1NB30	11,916.00
				175...280	3RT2336-1NP30	11,916.00
110 / 95	11	1	1	20...33	3RT2337-1NB30	16,920.00
				175...280	3RT2337-1NP30	16,920.00

Size S3

110 / 100	11	1	1	20...33	3RT2344-1NB30	18,432.00
				175...280	3RT2344-1NP30	18,432.00
140 / 130	11	1	1	20...33	3RT2346-1NB30	22,140.00
				175...280	3RT2346-1NP30	22,140.00
160 / 140	11	1	1	20...33	3RT2348-1NB30	23,796.00
				175...280	3RT2348-1NP30	23,796.00

Remarks

Selection of Coil Voltage

3RT2316 - 1AXXX

↑
coil
voltage

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

Contactor Type	3RT23 1	3RT23 2, 3RT23 3, 3RT23 4
Rated control supply Voltage Us		
Magnetic coils for 50 and 60 Hz		
24 V AC	B0	C2
42 V AC	D0	D2
48 V AC	H0	H2
110 V AC	F0	G2
220 V AC	N2	N2
230 V AC	P0	L2

3RT23 Contactors for Special Applications

1

3RT23 Contactors , 4-pole
AC / DC Coil , Version for AC-3 motor loads



Rated data AC-2 / AC-3 tu: 60 °C Operational current le up to 4000V A	Rated data AC-1 tu: 40 / 60 °C Operational current le up to 690V A	Auxiliary contacts Ident. No.	Version NO NC	Rated Control Supply voltage Us at 50/60 Hz AC or DC V	Order Number	Price List TH
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Size S2

50	60 / 55	11	1	1	20...33	3RT2336-1NB30-4AA0	12,276.00
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Size S3

95	110 / 100	11	1	1	20...33	3RT2346-1NB30-4AA0	22,968.00
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Remarks

Selection of Coil Voltage

3RT2316 - 1AXXX

↑
coil voltage

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

Contactor Type	3RT23 1	3RT23 2, 3RT23 3, 3RT23 4
Rated control supply Voltage Us		
Magnetic coils for 50 and 60 Hz		
24 V AC	B0	C2
42 V AC	D0	D2
48 V AC	H0	H2
110 V AC	F0	G2
220 V AC	N2	N2
230 V AC	P0	L2

3RT25

4-pole Contactors



DESCRIPTION

The contactors are suitable for use in any climate and they are finger-safe according to IEC 60529

In sizes S0 to S3, the 3RT23 contactors have two auxiliary contacts with 1 NO + 1 NC integrated in the basic version.

The contactors are suitable:

- For changing the polarity of hoisting gear motors
- For switching two separate loads

STANDARDS

- IEC 60947-1, EN 60947-1
- IEC 60947-4-1, EN 60947-4-1
- IEC 60947-5-1, EN 60947-5-1

3RT25 Contactors for Special Applications

3RT25 Contactors , 4-pole, 2NO + 2NC
AC Coil

1



Rated data AC-2 / AC-3 tu: up to 60 °C		Rated data AC-1 tu: 40 / 60 °C	Auxiliary contacts	Version	Rated Control Supply voltage Us		Order Number	Price List TH
Operational current le up to 400V A	Rating of three- phase motors at 50 Hz 400V kW	Operational current le up to 690V A	Ident. No.	NO NC	at 50/60 Hz VAC	50Hz VAC		

Size S00

9	4	18 / 16	-	-	-	24	-	3RT2516-1AB00	1,530.00
						110	-	3RT2516-1AF00	1,530.00
						230	-	3RT2516-1AP00	1,530.00
12 / 9	5.5/4	22 / 20	-	-	-	24	-	3RT2517-1AB00	1,897.00
						110	-	3RT2517-1AF00	1,897.00
						230	-	3RT2517-1AP00	1,897.00
16 / 9	7.5/4	22 / 20	-	-	-	24	-	3RT2518-1AB00	2,408.00
						110	-	3RT2518-1AF00	2,408.00
						230	-	3RT2518-1AP00	2,408.00

Size S0

25	11	40 / 35	11	1	1	-	24	3RT2526-1AB00	4,356.00
						-	110	3RT2526-1AF00	4,356.00
						-	230	3RT2526-1AP00	4,356.00

Size S2

35	18.5	60 / 55	11	1	1	-	24	3RT2535-1AB00	7,056.00
						-	110	3RT2535-1AF00	7,056.00
						-	230	3RT2535-1AP00	7,056.00
41	22	70 / 60	11	1	1	-	24	3RT2536-1AB00	9,144.00
						-	110	3RT2536-1AF00	9,144.00
						-	230	3RT2536-1AP00	9,144.00

Size S3

65	30	100 / 90	11	1	1	-	24	3RT2544-1AB00	10,476.00
						-	110	3RT2544-1AF00	10,476.00
						-	230	3RT2544-1AP00	10,476.00
80	37	125 / 105	11	1	1	-	24	3RT2545-1AB00	15,408.00
						-	110	3RT2545-1AF00	15,408.00
						-	230	3RT2545-1AP00	15,408.00

Remarks

Selection of Coil Voltage

3RT2316 - 1AXXX



Rated control supply voltages (the 10th and 11th position of the order number must be changed)

Contactor Type	3RT25 1	3RT25 2, 3RT25 3, 3RT25 4
Rated control supply Voltage Us		
Magnetic coils for 50 and 60 Hz		
24 V AC	B0	C2
42 V AC	D0	D2
48 V AC	H0	H2
110 V AC	F0	G2
220 V AC	N2	N2
230 V AC	P0	L2

3RT25 Contactors for Special Applications

3RT25 Contactors , 4-pole, 2NO + 2NC
AC Coil



1

Rated data AC-2 / AC-3 tu: up to 60 °C		Rated data AC-1 tu: 40 / 60 °C	Auxiliary contacts	Version	Rated Control Supply voltage Us	Order Number	Price List TH
Operational current le up to 400V A	Rating of three- phase motors at 50 Hz 400V kW	Operational current le up to 690V A	Ident. No.	  NO NC	VDC		

Size S00							
9	4	18 / 16	-	-	-	24	3RT2516-1BB40 1,771.00
						220	3RT2516-1BM40 1,771.00
12 / 9	5.5/4	22 / 20	-	-	-	24	3RT2517-1BB40 2,163.00
						220	3RT2517-1BM40 2,163.00
16 / 9	7.5/4	22 / 20	-	-	-	24	3RT2518-1BB40 3,780.00
						220	3RT2518-1BM40 3,780.00
Size S0							
25 (20)	11 (7.5)	40 / 35	11	1	1	24	3RT2526-1BB40 6,336.00
						220	3RT2526-1BM40 6,336.00

Remarks

Selection of Coil Voltage
3RT2316 - 1AXXX

↑
coil voltage

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

Contactor Type	3RT25 1	3RT25 2, 3RT25 3, 3RT25 4
Rated control supply Voltage Us		
Magnetic coils for 50 and 60 Hz		
24 V AC	B0	C2
42 V AC	D0	D2
48 V AC	H0	H2
110 V AC	F0	G2
220 V AC	N2	N2
230 V AC	P0	L2

3RT25 Contactors for Special Applications

1

3RT25 Contactors , 4-pole, 2NO + 2NC AC / DC Coil



Rated data AC-2 / AC-3 tu: up to 60 °C		Rated data AC-1 tu: 40 / 60 °C	Auxiliary contacts	Version	Rated Control Supply voltage Us at 50/60 Hz AC or DC	Order Number	Price List TH
Operational current le up to 400V A	Rating of three- phase motors at 50 Hz 400V kW	Operational current le up to 690V A	Ident. No.	  NO NC	V		

Size S2

35	18.5	60 / 55	11	1	1	20...33 83...155 175...280	3RT2535-1NB30 3RT2535-1NF30 3RT2535-1NP30	9,972.00 9,972.00 9,972.00
41	22	70 / 60	11	1	1	20...33 83...155 175...280	3RT2536-1NB30 3RT2536-1NF30 3RT2536-1NP30	13,068.00 13,068.00 12,492.00

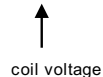
Size S3

65	30	100 / 90	11	1	1	20...33 175...280	3RT2544-1NB30 3RT2544-1NP30	15,552.00 15,552.00
80	37	125 / 105	11	1	1	20...33 175...280	3RT2545-1NB30 3RT2545-1NP30	20,160.00 20,160.00

Remarks

Selection of Coil Voltage

3RT2316 - 1AXXX



coil voltage

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

Contactor Type	3RT25 1	3RT25 2, 3RT25 3, 3RT25 4
Rated control supply Voltage Us		
Magnetic coils for 50 and 60 Hz		
24 V AC	B0	C2
42 V AC	D0	D2
48 V AC	H0	H2
110 V AC	F0	G2
220 V AC	N2	N2
230 V AC	P0	L2

3RB

Solid-State Overload Relays



DESCRIPTION

The 3RB30/3RB31 solid-state overload relays up to 40 A with internal power supply have been designed for inverse-time delayed protection of loads with normal and heavy starting against excessive temperature rises due to overload, phase unbalance or phase failure result in an increase of the motor current beyond the set rated motor current.

This current rise is detected by the current transformers integrated into the devices and evaluated by corresponding solid-state circuits which then output a pulse to the auxiliary contacts. The auxiliary contacts then switch off the load by means of a contactor. The breaking time depends on the ratio between the tripping current and set current I_e and is stored in the form of a long-term stable tripping characteristic.

The 3RB20 and 3RB21 solid-state overload relays up to 630 A with internal power supply have been designed for inverse-time delayed protection of loads with normal and heavy starting against excessive temperature rises due to overload, phase unbalance or phase failure.

STANDARDS

- IEC60947-4-1
- IEC60947-4-2
- IEC60947-1

3RB Solid-State Overload Relays

1

3RB30 solid-state overload relays for mounting onto contactors, CLASS 10 For Standard Application



Size Contactor	Rating for three-phase motor, rated value kW	Current setting value of the inverse- time delayed overload release A	Short-circuit protection with fuse, type of coordination "2" operational class gG	Order Number	Price List TH
Size S00					
	0.04...0.9	0.1...0.4	4	3RB3016-1RB0	5,039.00
	0.12...0.37	0.32...1.25	6	3RB3016-1NB0	5,039.00
	0.55...1.5	1...4	20	3RB3016-1PB0	5,039.00
	1.1...5.5	3...12	25	3RB3016-1SB0	5,039.00
	2.2...7.5	4...16	25	3RB3016-1TB0	5,039.00
Size S0					
	0.04...0.9	0.1...0.4	4	3RB3026-1RB0	5,768.00
	0.12...0.37	0.32...1.25	6	3RB3026-1NB0	5,768.00
	0.55...1.5	1...4	20	3RB3026-1PB0	5,768.00
	1.1...5.5	3...12	25	3RB3026-1SB0	5,768.00
	3...11	6...25	50	3RB3026-1QB0	5,768.00
	5.5...18.5	10...40	50	3RB3026-1VB0	8,495.00
Size S2					
<i>Devices with screw terminals (main current side) and for mounting onto contactor</i>					
	7.5...22	12.5...50	250	3RB3036-1UB0	9,439.00
	11...37	20...80	250	3RB3036-1WB0	12,166.00
<i>Devices with straight-through transformer for stand-alone Installation</i>					
	7.5...22	12.5...50	250	3RB3036-1UW1	9,439.00
	11...37	20...80	250	3RB3036-1WW1	12,166.00
Size S3					
<i>Devices with screw terminals (main current side) and for mounting onto contactor</i>					
	7.5...22	12.5...50	200	3RB3046-1UB0	10,435.00
	18.5...55	32...115	315	3RB3046-1XB0	14,473.00
<i>Devices with straight-through transformer for stand-alone Installation</i>					
	7.5...22	12.5...50	200	3RB3046-1UW1	13,267.00
	18.5...55	32...115	315	3RB3046-1XW1	14,473.00

3RB Solid-State Overload Relays

1

3RB30 solid-state overload relays for mounting onto contactors, CLASS 10 Accessories

Version	Size	Order Number	Price List TH
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Terminal brackets for stand-alone installation



3RU2916-3AA01

For separate mounting of the
overload relays; screw and snap-on
mounting onto TH35 standard mounting rail

S00	3RU2916-3AA01	512.00
S0	3RU2926-3AA01	624.00
S2	3RU2936-3AA01	844.00
S3	3RU2946-3AA01	1,092.00



3RU2926-3AA01



3RU2936-3AA01



3RU2946-3AA01

Mechanical RESET



3RB3980-0A
with pushbutton and
extension plunger

Resetting plungers, holders and formers
Pushbuttons with extended stroke
(12mm), IP65, Ø 22 mm
Extension plungers
For distance between the pushbutton and the

3RB3980-0A	216.00
3SU1200-0FB10-0AA0	1,205.00
3SU1900-0KG10-0AA0	142.00

Cable releases with holder for RESET



For Ø 6.5 mm hole in the control panel;
max. control panel thickness 8 mm

• Length 400 mm	S00...S3	3RB3980-0B	2,116.00
• Length 600 mm	S00...S3	3RB3980-0C	2,116.00

3RB Solid-State Overload Relays

1

**3RB20 solid-state overload relays for mounting onto contactors and stand-alone installation, CLASS 10E
For Standard Application**



Size Contactor	Rating for three-phase motor, rated value	Current setting value of the inverse- time delayed overload release	Short-circuit protection with fuse, type of coordination "2" operational class gG	Order Number	Price List TH
	kW	A			
Size S6					
	<i>Devices with busbar connection, for mounting onto contactor and stand-alone installation</i>				
	30...90	50...200	315	3RB2056-1FC2	16,308.00
	<i>Devices with straight-through transformer, for mounting onto contactor and stand-alone installation</i>				
with box terminals	30...90	50...200	315	3RB2056-1FW2	15,732.00
Size S10/S12					
	<i>Devices with busbar connection, for mounting onto contactor and stand-alone installation</i>				
Size S10 / S12	30...132	55...250	400	3RB2066-1GC2	17,000.00
and size 14	90...355	160...630	800	3RB2066-1MC2	29,000.00
(3TF68/69)					

3RB Solid-State Overload Relays

1

3RB20 solid-state overload relays for mounting onto contactors and stand-alone installation, CLASS 10E Accessories

Version	Size	Order Number	Price List TH
Mechanical RESET			
	Resetting plungers, holders and formers	S6...S12 3RB3980-0A	216.00
	Pushbuttons with extended stroke (12mm), IP65, Ø 22 mm	S6...S12 3SU1200-0FB10-0AA0	1,205.00
	Extension plungers For distance between the pushbutton and the relay	S6...S12 3SU1900-0KG10-0AA0	142.00
Cable releases with holder for RESET			
	For Ø 6.5 mm hole in the control panel; max. control panel thickness 8 mm		
	• Length 400 mm	S6...S12 3RB3980-0B	2,116.00
	• Length 600 mm	S6...S12 3RB3980-0C	2,116.00

SIMOCODE

MOTOR MANAGEMENT & CONTROL DEVICES

SIMOCODE PRO	2-2
SIMOCODE PRO S	2-5
SIMOCODE PRO V	2-6
SIMOCODE PRO V EXPANSION MODULES	2-7
SIMOCODE ACCESSORIES	2-8

FOR MORE INFORMATION SCAN THE QR CODE
& SEARCH FOR ITEM NUMBER



SIMOCODE

Motor Management and Control Devices



DESCRIPTION

SIMOCODE Pro is a flexible and modular motor control system for low-voltage motors.

It can easily and directly be connected to automation systems via PROFIBUS or PROFINET and covers all functional requirements between the motor starter and the automation system – including the fail-safe disconnection of motors.

Key benefits from SIMOCODE pro:

- Save time, space and money
- Discover the simplicity of the system, thanks to fewer components for all required functions
- Protect your flexibility with the aid of optional expansion modules
- Gain transparency throughout your system with extensive data provision

FEATURES

SIMOCODE pro provides flexible control and comprehensive protection of motors and applications:

- Multifunctional, electronic full motor protection that is independent of the automation system
- Extensive motor control functions
- First motor management system on the market with integrated safety technology
- Communication via PROFINET IO, PROFIBUS DP and Modbus RTU
- Detailed operating, service, and diagnostics data - including via OPC UA and integrated web server
- SIMOCODE ES is the software package for SIMOCODE Pro parameterization, start up and diagnostics

SIMOCODE

Pro S / Pro V

	PROFINET IO / OPC UA	ETHERNET / IP	PROFIBUS	MODBUS RTU	
Current/voltage measuring module	 SIMOCODE pro V PN	 SIMOCODE pro V EIP	 SIMOCODE pro V PB	 SIMOCODE pro V MR	High Performance
Operator panel with display					
Max. 5/7 expansion modules					
Safety					
Extended control functions (e.g. positioner, pole-changing starter)					
Current measuring module	 SIMOCODE pro V PN GP	 SIMOCODE pro S			General Performance
Operator panel					
1 expansion module					
Basic control functions (e.g. direct-on-line/reversing start)					

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DESCRIPTION

Many predefined motor control functions have already been integrated into SIMOCODE pro, including all necessary logic operations and interlocks:

- Overload relays
- Direct-on-line and reversing starters
- Wye/delta starters (also with direction reversal)
- Two speeds, motors with separate windings (pole-changing switch); also with direction reversal
- Two speeds, motors with separate Dahlander windings (also with direction reversal)
- Positioner actuation
- Solenoid valve actuation
- Actuation of a circuit breaker
- Soft starter actuation, also with direction reversal.

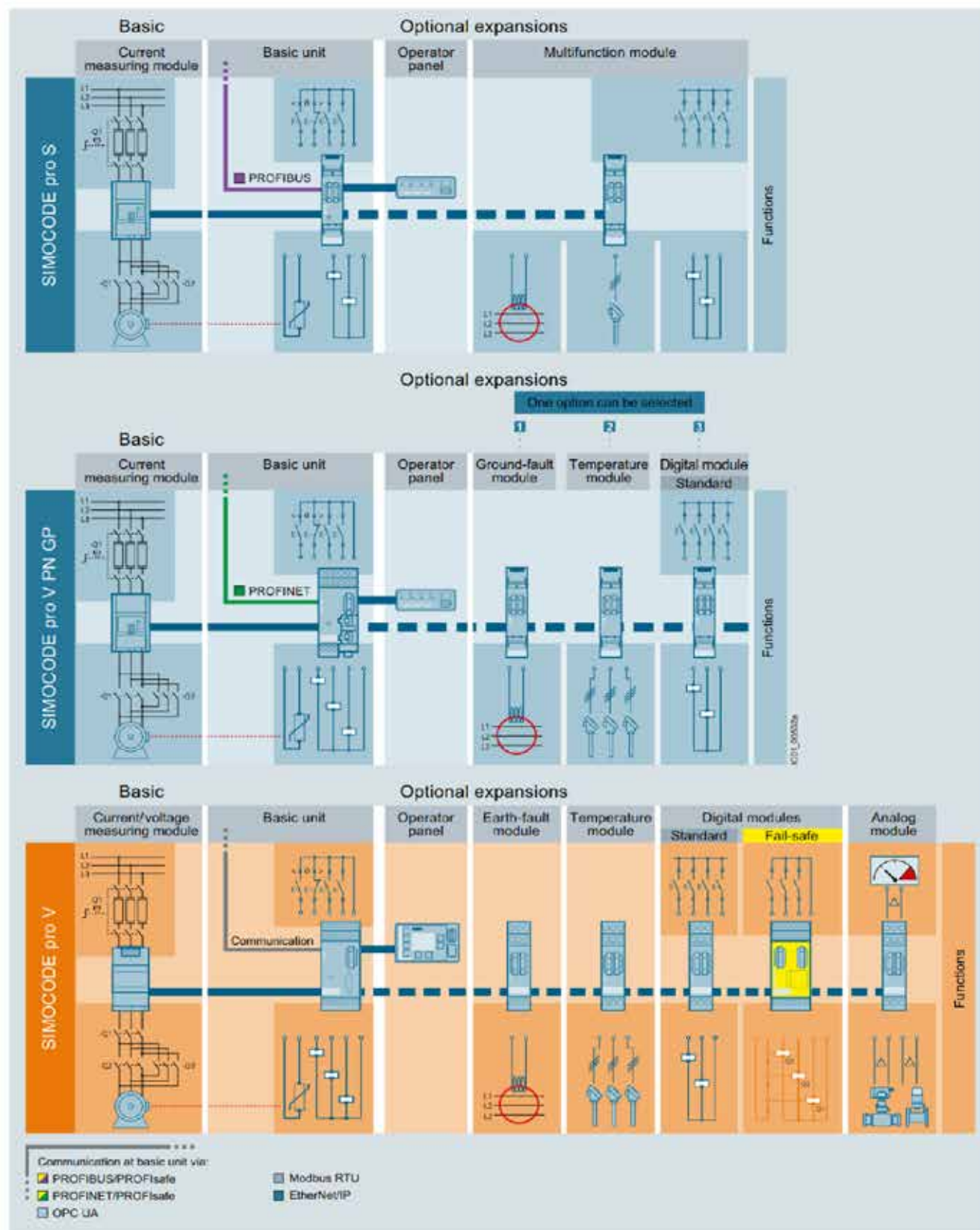
DEVICE SERIES

1. General Performance with SIMOCODE PRO S or SIMOCODE PRO V PN GP
2. High Performance with SIMOCODE PRO V

SIMOCODE PRO

Motor Management and Control Devices

Structure of Simocode Pro S / Simocode Pro V



SIMOCODE PRO Motor Management and Control Devices

2

Simocode Pro S

The SIMOCODE pro S device series is presently the smart system for direct-on-line, reversing, and star-delta starters or for controlling a motor starter protector or soft starter. Its expandability with a multi-function module provides comprehensive input/output project data volume, precise ground-fault detection via the 3UL23 residual-current transformers and temperature measurement.

Description	Configurator	Order No.	Price List TH
 Simocode Pro S Base Unit PROFIBUS interface, 1.5Mbps, RS485 4 I/O freely assignable, input for thermistor connection, monostable relay outputs Rated control supply voltage, Us: - 24V DC - 110-240V AC/DC		3UF7020-1AB01-0 3UF7020-1AU01-0	Price On Request Price On Request
 Current Measuring Module Straight Through Transformer - 0.3 - 3A - 2.4 - 25A - 10 - 100A - 20 - 200A Busbar Connection - 20 - 200A - 63 - 630A		3UF7100-1AA00-0 3UF7101-1AA00-0 3UF7102-1AA00-0 3UF7103-1AA00-0 3UF7103-1BA00-0 3UF7104-1BA00-0	Price On Request Price On Request Price On Request Price On Request Price On Request Price On Request
 Malfunction modules DC 24 V 110240 V AC / DC		3UF7600-1AB01-0 3UF7600-1AU01-0	Price On Request Price On Request
 Operator Panel		3UF7200-1AA01-0	Price On Request

SIMOCODE PRO Motor Management and Control Devices

Simocode Pro V

SIMOCODE Pro V, as a variable motor management system with all control functions and with the possibility of expanding the inputs, outputs and functions of the system at with using the expansion modules.

2

Description	Configurator	Order No.	Price List TH
 Simocode Pro V PROFIBUS Base Unit PROFIBUS DP interface, 1.5Mbps, RS485 4 I/ 3O, input for thermistor connection Rated control supply voltage, Us - 24V DC - 110-240V AC/DC		3UF7010-1AB00-0 3UF7010-1AU00-0	Price On Request Price On Request
 Simocode Pro V PROFINET GP Base Unit Ethernet /PROFINET IO, OPC UA server and web server, 100Mbps, PROFINET system redundancy, 4 I/ 3O, input for thermistor connection <u>2 x connection to bus through RJ45</u> Media Redundancy Protocol Rated control supply voltage, Us - 24V DC - 110-240V AC/DC <u>1 x connection to bus through RJ45</u> Rated control supply voltage, Us - 24V DC - 110-240V AC/DC		3UF7011-1AB00-1 3UF7011-1AU00-1 3UF7011-1AB00-2 3UF7011-1AU00-2	Price On Request Price On Request Price On Request Price On Request
 Simocode Pro V PROFINET Base Unit Ethernet /PROFINET IO, OPC UA server and web server, 100Mbps, 2 x connection to bus thru RJ45, PROFINET system redundancy, media redundancy, 4 I/ 3O, input for thermistor connection Rated control supply voltage, Us - 24V DC - 110-240V AC/DC		3UF7011-1AB00-0 3UF7011-1AU00-0	Price On Request Price On Request
 Simocode Pro V Modbus RTU Basic Unit Modbus RTU interface, 57.6 Kbps, RS485, 4 I/3O, input for thermistor connection Rated control supply voltage, Us - 24V DC - 110-240V AC/DC		3UF7012-1AB00-0 3UF7012-1AU00-0	Price On Request Price On Request
 Simocode Pro V Ethernet /IP Basic Unit Ethernet/IP interface, web server, 100Mbps, 2 x connection to bus through RJ45, DLR media redundancy, 4 I3/O, input for thermistor connection Rated control supply voltage, Us - 24V DC - 110-240V AC/DC		3UF7013-1AB00-0 3UF7013-1AU00-0	Price On Request Price On Request

SIMOCODE PRO Motor Management and Control Devices

Simocode Pro V

SIMOCODE Pro V, as a variable motor management system with all control functions and with the possibility of expanding the inputs, outputs and functions of the system at with using the expansion modules.

2

Description	Configurator	Order No.	Price List TH
 Current/Voltage Measuring Module Straight Through Transformer - 0.3 - 4A - 3 - 40A - 10 - 1115A - 20 - 200A Busbar Connection - 20 - 200A - 63 - 630A		3UF7110-1AA01-0 3UF7111-1AA01-0 3UF7112-1AA01-0 3UF7113-1AA01-0 3UF7113-1BA01-0 3UF7114-1BA01-0	Price On Request Price On Request Price On Request Price On Request Price On Request Price On Request
 Current/Voltage Measuring Module for dry-running protection of centrifugal pumps in hazardous area Straight Through Transformer - 0.3 - 4A - 3 - 40A - 10 - 1115A - 20 - 200A Busbar Connection - 20 - 200A - 63 - 630A		3UF7120-1AA01-0 3UF7121-1AA01-0 3UF7122-1AA01-0 3UF7123-1AA01-0 3UF7123-1BA01-0 3UF7124-1BA01-0	Price On Request Price On Request Price On Request Price On Request Price On Request Price On Request
 Operator Panel with display > Titan grey - English/ German / French / Spanish / Portuguese / Italian / Polish/ Finnish - English / Chinese / Russian / Korean		3UF7210-1AA01-0 3UF7210-1BA01-0	Price On Request Price On Request

Expansion Modules for Simocode Pro V

With Simocode Pro V, it is possible to expand the type and number of inputs and outputs in steps. Each expansion module has two system interfaces on the front. Through the one system interface the expansion module is connected to the system interface of the SIMOCODE Pro V using a connection cable; through the second system interface, further expansion modules or the operator panel can be connected. The power supply for the expansion modules is provided by the connection cable through the basic unit.

2

Description	Configurator	Order No.	Price List TH
 Digital Module 4 Binary Input & 2 relay output Relay Output Input voltage Monostable - DC 24 V - AC/DC 110-240V Bistable - DC 24V - AC/DC 110-240V	3UF73□ 0-1A□ 00-0 0 1 B U	3UF7300-1AB00-0 3UF7300-1AU00-0 3UF7310-1AB00-0 3UF7310-1AU00-0	Price On Request Price On Request Price On Request Price On Request
 Ground Fault Module 1 input for connecting a 3UL23 residual-current transformer, up to 1 ground-fault module can be connected		3UF7510-1AA00-0	Price On Request
 Temperature Module 3 inputs for connecting up to 3 analog temperature sensors, up to one temperature module can be connected per pro V PB/MB RTU basic unit and up to two temperature modules per pro V PN/EIP basic unit		3UF7700-1AA00-0	Price On Request
 Analog Module Basic Unit 2 can be optionally expanded with analog inputs and outputs (0/4 ... 20 mA) by means of the analog module. 2 inputs (passive) for input and 1 output for output of 0/4 ... 20 mA signals, max. 1 analog module can be connected per basic unit		3UF7400-1AA00-0	Price On Request
 Fail-safe expansion modules DM-F Local fail-safe digital modules - DC 24V - AC/DC 110-240V DM-F PROFIsafe fail-safe digital modules - DC 24V - AC/DC 110-240V		3UF7320-1AB00-0 3UF7320-1AU00-0 3UF7330-1AB00-0 3UF7330-1AU00-0	Price On Request Price On Request Price On Request Price On Request

SIMOCODE PRO Motor Management and Control Devices

2

Description		Order No.	Price List TH
	Data Cable 0.025m Flat 0.1m Flat 0.15m Flat 0.3m Flat 0.5m Flat 0.5m Round 1.0m Round 2.5m Round	3UF7930-0AA00-0 3UF7931-0AA00-0 3UF7934-0AA00-0 3UF7935-0AA00-0 3UF7932-0AA00-0 3UF7932-0BA00-0 3UF7937-0BA00-0 3UF7933-0BA00-0	Price On Request Price On Request Price On Request Price On Request Price On Request Price On Request Price On Request Price On Request
	USB PC Cables USB / Serial adapters	3UF7941-0AA00-0 3UF7946-0AA00-0	Price On Request Price On Request
	Memory Module for SIMOCODE Pro S and Pro V For parameterizing SIMOCODE Pro system Titanium Gray	3UF7901-0AA01-0	Price On Request
	Addressing Plug For assigning the PROFIBUS addresses	3UF7910-0AA00-0	Price On Request
	Interface Covers For System interface • Titanium grey	3RA6936-0B	Price On Request
	Door Adapter For external connection	3UF7920-0AA00-0	Price On Request
	Accessories for motor control centre Initialization module For automatic parameterization of SIMOCODE Pro S, SIMOCODE Pro V and SIMOCODE Pro V PROFINET Y connection cable For use in conjunction with the initialization module System Interface length 0.1 m 0.5m 1.0m	3UF7902-0AA00-0 Open cable end 1.0 3UF7931-0CA00-0 1.0 3UF7932-0CA00-0 1.0 3UF7937-0CA00-0	Price On Request Price On Request Price On Request Price On Request
	Bus Connection terminal For shield support and strain relief of the PROFIBUS cable on a SIMOCODE S	3UF7960-0AA00-0	Price On Request
	Covers for cable lugs and busbar connections • Length 100 mm, can be used for 3UF7 1.3-1BA00-0 } 3RT19 56-4EA1 1 1 unit 101 0.070 • Length 120 mm, can be used for 3UF7 1.4-1BA00-0	3RT1956-4EA1 3RT1966-4EA1	Price On Request Price On Request
	Covers for box terminals • Length 25 mm, can be used for 3UF7 1.3-1BA00-0 • Length 30 mm, can be used for 3UF7 1.4-1BA00-0 Covers for screw terminals Between contactor and current measuring module or current/voltage measuring module for direct mounting • Can be used for 3UF7 1.3-1BA00-0 • Can be used for 3UF7 1.4-1BA00-0	3RT1956-4EA2 3RT1966-4EA2 3RT1956-4EA3 3RT1966-4EA3	Price On Request Price On Request Price On Request Price On Request

2-10

3RW SOFT STARTERS

3RW SOFT STARTERS

3RW30

3RW40 & 3RW50

3RW52

3RW55

3-2

3-3

3-4

3-5

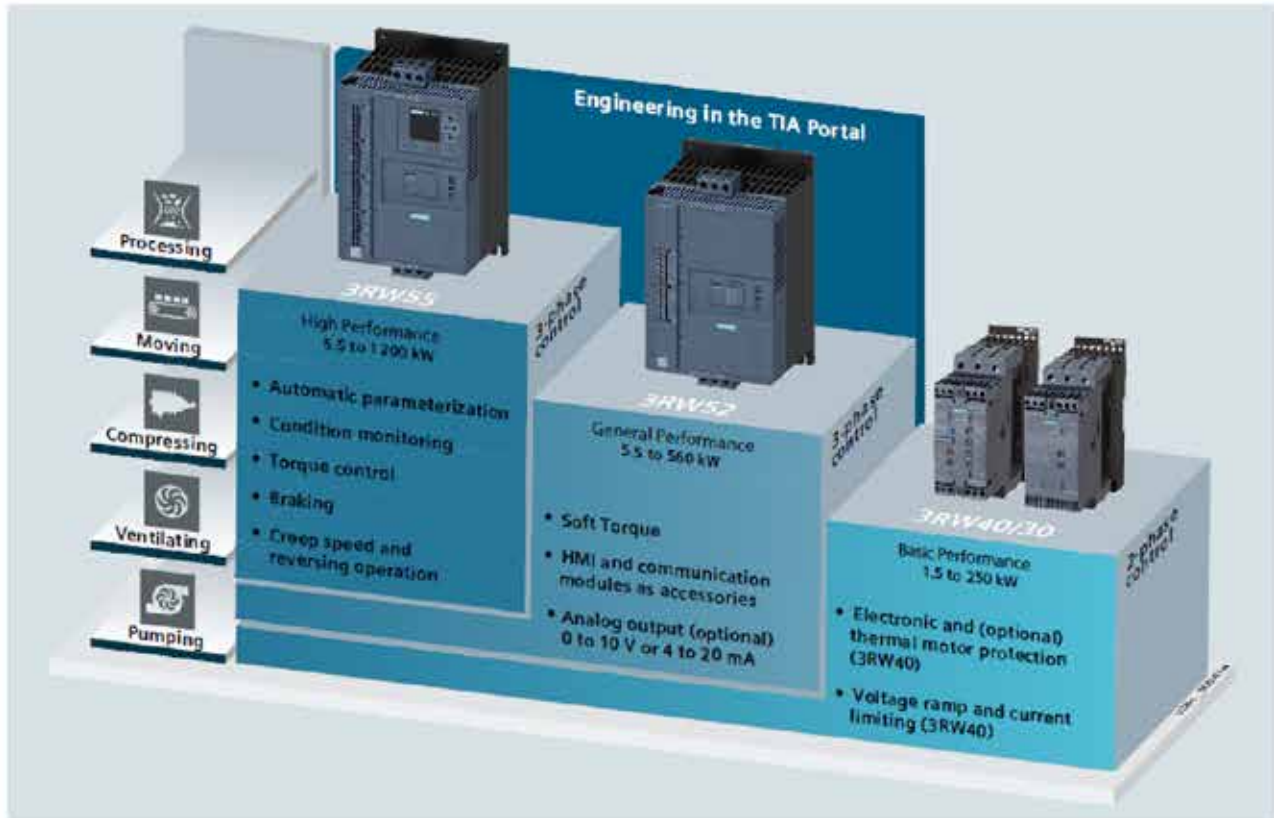
3-6

FOR MORE INFORMATION SCAN THE QR CODE
& SEARCH FOR ITEM NUMBER



3RW

Soft Starters



Article No. scheme

Product versions		Article number							
Device type	High Performance soft starters	3RW55	☐	☐	-	☐	☐	☐	☐
	General Performance soft starters	3RW52	☐	☐	-	☐	☐	☐	☐
	Basic Performance soft starters	3RW40	☐	☐	-	☐	☐	☐	☐
		3RW30	☐	☐	-	☐	☐	☐	☐
Size/rated operational current I_N	e.g. 15 = 25 A in size S1		☐	☐					
Connection type	e.g. 1 = screw terminal					☐			
Soft starter functionality	e.g. AC = with bypass and analog output, three-phase controlled						☐	☐	
Rated control supply voltage U_c	e.g. 0 = 24 V AC/DC							☐	
Rated operational voltage U_N	e.g. 4 = 200 ... 480 V AC								☐
Example		3RW52	1	5	-	1	A	C	0 4

Note:

The Article No. scheme shows an overview of product versions for better understanding of the logic behind the article numbers.

For your orders please use the article numbers quoted in the selection and ordering data.

3RW30 Soft Starters

For normal Starting (Class 10)



Ambient temperature 40°C
Rated values of three-phase motors

Size	Operational Current, I _e	Rated at Operational voltage U _e	Rated Control Supply voltage, U _s at 50/60 Hz	Order No.	Price List TH
	A	400V kW			

Rated operational voltage U_e, 200...480V

S00	3.6	1.5	110....230 V AC/DC	3RW3013-1BB14	Price On Request
	6.5	3	110....230 V AC/DC	3RW3014-1BB14	Price On Request
	9	4	110....230 V AC/DC	3RW3016-1BB14	Price On Request
	12.5	5.5	110....230 V AC/DC	3RW3017-1BB14	Price On Request
	17.6	7.5	110....230 V AC/DC	3RW3018-1BB14	Price On Request
S0	25	11	110....230 V AC/DC	3RW3026-1BB14	Price On Request
	32	15	110....230 V AC/DC	3RW3027-1BB14	Price On Request
	38	18.5	110....230 V AC/DC	3RW3028-1BB14	Price On Request
	45	22	110....230 V AC/DC	3RW3036-1BB14	Price On Request
	63	30	110....230 V AC/DC	3RW3037-1BB14	Price On Request
	72	37	110....230 V AC/DC	3RW3038-1BB14	Price On Request
	80	45	110....230 V AC/DC	3RW3047-1BB14	Price On Request
	106	55	110....230 V AC/DC	3RW3048-1BB14	Price On Request

Note:

* For further clarification and other coil voltages, please contact your sales representative

3RW40 & 3RW50 Soft Starters

For normal Starting (Class 10)



3

Ambient temperature 40°C Rated values of three-phase motors					
Size	Operational Current, I _e	Rated at Operational voltage U _e	Rated Control Supply voltage, U _s at 50/60 Hz	Order No.	Price List TH
	A	400V kW			

Rated operational voltage U_e, 200...480V

S0	12.5	5.5	110....230 V AC/DC	3RW4024-1BB14	Price On Request
	25	11	110....230 V AC/DC	3RW4026-1BB14	Price On Request
	32	15	110....230 V AC/DC	3RW4027-1BB14	Price On Request
	38	18.5	110....230 V AC/DC	3RW4028-1BB14	Price On Request
S2	45	22	110....230 V AC/DC	3RW4036-1BB14	Price On Request
	63	30	110....230 V AC/DC	3RW4037-1BB14	Price On Request
	72	37	110....230 V AC/DC	3RW4038-1BB14	Price On Request
	80	45	110....230 V AC/DC	3RW4046-1BB14	Price On Request
	106	55	110....230 V AC/DC	3RW4047-1BB14	Price On Request

Rated operational voltage U_e, 200...460V

S6	143	75	110....230 V AC/DC	3RW5055-6AB14	Price On Request
	171	90	110....230 V AC/DC	3RW5056-6AB14	Price On Request
S12	210	110	110....230 V AC/DC	3RW5072-6AB14	Price On Request
	250	132	110....230 V AC/DC	3RW5073-6AB14	Price On Request
	315	160	110....230 V AC/DC	3RW5074-6AB14	Price On Request
	370	200	110....230 V AC/DC	3RW5075-6AB14	Price On Request
	470	250	110....230 V AC/DC	3RW5076-6AB14	Price On Request
	570	315	110....230 V AC/DC	3RW5077-6AB14	Price On Request

Note:

* For further clarification and other coil voltages, please contact your sales representative

3RW52 Soft Starters

For normal Starting (Class 10)



3

Ambient temperature 40°C Rated values of three-phase motors					
Size	Operational Current, I _e	Rated at Operational voltage U _e	Rated Control Supply voltage, U _s at 50/60 Hz	Order No.	Price List TH
	A	400V kW			

Rated operational voltage U_e, 200...480V

S0	13	5.5	110....250 V AC/DC	3RW5213-1AC14	Price On Request
	18	11	110....250 V AC/DC	3RW5214-1AC14	Price On Request
	25	11	110....250 V AC/DC	3RW5215-1AC14	Price On Request
	32	15	110....250 V AC/DC	3RW5216-1AC14	Price On Request
	38	18.5	110....250 V AC/DC	3RW5217-1AC14	Price On Request
	47	22	110....250 V AC/DC	3RW5224-1AC14	Price On Request
	63	30	110....250 V AC/DC	3RW5225-1AC14	Price On Request
	77	37	110....250 V AC/DC	3RW5226-1AC14	Price On Request
	93	45	110....250 V AC/DC	3RW5227-1AC14	Price On Request
	113	55	110....250 V AC/DC	3RW5234-6AC14	Price On Request
S6	143	75	110....250 V AC/DC	3RW5235-6AC14	Price On Request
	171	90	110....250 V AC/DC	3RW5236-6AC14	Price On Request
	210	110	110....250 V AC/DC	3RW5243-6AC14	Price On Request
	250	132	110....250 V AC/DC	3RW5244-6AC14	Price On Request
	315	160	110....250 V AC/DC	3RW5245-6AC14	Price On Request
	370	200	110....250 V AC/DC	3RW5246-6AC14	Price On Request
	470	250	110....250 V AC/DC	3RW5247-6AC14	Price On Request
	570	315	110....250 V AC/DC	3RW5248-6AC14	Price On Request

Note:

* For further clarification and other coil voltages, please contact your sales representative

3RW55 Soft Starters

For normal Starting (Class 10E)



3

Ambient temperature 40°C Rated values of three-phase motors					
Size	Operational Current, I _e	Rated at Operational voltage U _e	Rated Control Supply voltage, U _s at 50/60 Hz	Order No.	Price List TH
	A	400V kW			

Rated operational voltage U_e, 200...480V

S0	13	5.5	110....250 V AC/DC	3RW5513-1HA14	Price On Request
	18	11	110....250 V AC/DC	3RW5514-1HA14	Price On Request
	25	11	110....250 V AC/DC	3RW5515-1HA14	Price On Request
	32	15	110....250 V AC/DC	3RW5516-1HA14	Price On Request
	38	18.5	110....250 V AC/DC	3RW5517-1HA14	Price On Request
	47	22	110....250 V AC/DC	3RW5524-1HA14	Price On Request
	63	30	110....250 V AC/DC	3RW5525-1HA14	Price On Request
	77	37	110....250 V AC/DC	3RW5526-1HA14	Price On Request
	93	45	110....250 V AC/DC	3RW5527-1HA14	Price On Request
S6	113	55	110....250 V AC/DC	3RW5534-6HA14	Price On Request
	143	75	110....250 V AC/DC	3RW5535-6HA14	Price On Request
	171	90	110....250 V AC/DC	3RW5536-6HA14	Price On Request
	210	110	110....250 V AC/DC	3RW5543-6HA14	Price On Request
	250	132	110....250 V AC/DC	3RW5544-6HA14	Price On Request
	315	160	110....250 V AC/DC	3RW5545-6HA14	Price On Request
	370	200	110....250 V AC/DC	3RW5546-6HA14	Price On Request
	470	250	110....250 V AC/DC	3RW5547-6HA14	Price On Request
	570	315	110....250 V AC/DC	3RW5548-6HA14	Price On Request
	630	355	110....250 V AC/DC	3RW5552-6HA14	Price On Request
	720	400	110....250 V AC/DC	3RW5553-6HA14	Price On Request
	840	450	110....250 V AC/DC	3RW5554-6HA14	Price On Request
	1100	560	110....250 V AC/DC	3RW5556-6HA14	Price On Request
	1280	710	110....250 V AC/DC	3RW5558-6HA14	Price On Request

COMMANDING & SIGNALLING DEVICES

3SB6 4-2

PUSHBUTTONS AND INDICATOR LIGHTS

METAL SHINY 4-3

PLASTIC 4-5

COMPACT PUSHBUTTONS AND INDICATOR LIGHTS

PLASTIC 4-7

ACCESSORIES 4-8

**FOR MORE INFORMATION SCAN THE QR CODE
& SEARCH FOR ITEM NUMBER**



3SB6

Commanding & Signalling Devices



DESCRIPTION

The 3SB6 Series is a modular and compact combination of commanding and signalling devices for front plate mounting. Depending on the specific application, various versions can be assembled.

Complete units are offered for the most commonly used applications.

The 3SB6 series is available:

1. Modular metal shiny
2. Modular plastic black
3. Compact plastic version
4. Enclosures/accessories

FEATURES

The 3SB6 series can easily and quickly be mounted:

- Actuators are positioned in the opening of the control panel from the front
- Position the holder from the rear
- Tighten the screws on the holder
- Snap on the contact blocks or illumination module directly onto the actuator from the back

3SB6 Pushbuttons & Indicator Lights

Complete Unit , Metal , Round 22mm

Rated voltage of lamp V	Colour of Handle	Contacts	Order No.	Price List TH
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Push Button



with flat button, momentary

Black	1 NO	3SB6160-0AB10-1BA0	290.00
Black	1 NC	3SB6160-0AB10-1CA0	290.00
Red	1 NC	3SB6160-0AB20-1CA0	290.00
Yellow	1 NO	3SB6160-0AB30-1BA0	290.00
Green	1 NO	3SB6160-0AB40-1BA0	290.00
Blue	1 NO	3SB6160-0AB50-1BA0	290.00
White	1 NO	3SB6160-0AB60-1BA0	290.00

with raise button, momentary

Black	1 NO	3SB6160-0BB10-1BA0	330.00
Black	1 NC	3SB6160-0BB10-1CA0	330.00
Red	1 NC	3SB6160-0BB20-1CA0	330.00
Yellow	1 NO	3SB6160-0BB30-1BA0	330.00
Green	1 NO	3SB6160-0BB40-1BA0	330.00
Blue	1 NO	3SB6160-0BB50-1BA0	330.00
White	1 NO	3SB6160-0BB60-1BA0	330.00

Illuminated pushbuttons with flat button, momentary with integrated LED



24V AC/DC	Red	1 NC	3SB6163-0DB20-1CA0	580.00
	Yellow	1 NO	3SB6163-0DB30-1BA0	580.00
	Green	1 NO	3SB6163-0DB40-1BA0	580.00
	Blue	1 NO	3SB6163-0DB50-1BA0	580.00
	White	1 NO	3SB6163-0DB60-1BA0	580.00
220V AC/DC	Red	1 NC	3SB6166-0DB20-1CA0	580.00
	Yellow	1 NO	3SB6166-0DB30-1BA0	580.00
	Green	1 NO	3SB6166-0DB40-1BA0	580.00
	Blue	1 NO	3SB6166-0DB50-1BA0	580.00
	White	1 NO	3SB6166-0DB60-1BA0	580.00

Emergency-stop mushroom pushbuttons, Ø40mm



Twist to release	Red	1 NC	3SB6160-1HB20-1CA0	520.00
Pull to release	Red	1 NC	3SB6160-1HA20-1CA0	520.00
Key to release	Red	1 NC	3SB6160-1HD20-1CA0	900.00

3SB6 Pushbuttons & Indicator Lights

Complete Unit , Metal , Round 22mm

Rated voltage of lamp V	Colour of Handle	Contacts	Order No.	Price List TH
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Selector Switch



Selector switches, 2 switch positions, short handle

90° operating angle

Black	1 NO	3SB6160-2AA10-1BA0	420.00
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Selector switches, 3 switch positions, short handle

2x60° operating angle

Black	2 x 1 NO	3SB6160-2AL10-1NA0	500.00
Black	2 x 1 NO	3SB6160-2AM10-1NA0	500.00
Black	2 x 1 NO	3SB6160-2AN10-1NA0	500.00
Black	2 x 1 NO	3SB6160-2AP10-1NA0	500.00



Selector switches, 2 switch positions, long handle

90° operating angle

Black	1 NO	3SB6160-2BA10-1BA0	510.00
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Selector switches, 3 switch positions, long handle

2x60° operating angle

Black	2 x 1 NO	3SB6160-2BL10-1NA0	590.00
Black	2 x 1 NO	3SB6160-2BM10-1NA0	590.00
Black	2 x 1 NO	3SB6160-2BN10-1NA0	590.00
Black	2 x 1 NO	3SB6160-2BP10-1NA0	590.00

Key-operated Switch



Key-operated switches, 2 switch positions

With 2 keys, 90° operating angle

Black	1 NO	3SB6160-4AA01-1BA0	720.00
Black	1 NO	3SB6160-4AA11-1BA0	720.00
Black	1 NO	3SB6160-4AA21-1BA0	720.00

Key-operated switches, 3 switch positions

With 2 keys, 2 x 60° operating angle

Black	1 NO	3SB6160-4AL01-1NA0	840.00
Black	1 NO	3SB6160-4AL11-1NA0	840.00
Black	1 NO	3SB6160-4AM01-1NA0	840.00

Twin Pushbuttons



Twin Pushbuttons

With flat and raised buttons, with I/O description

--	Green/Red	1 NO	3SB6160-3AA24-1MK0	720.00
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3SB6 Pushbuttons & Indicator Lights

Complete Unit , Plastic , Round 22mm

Rated voltage of lamp V	Colour of Handle	Contacts	Order No.	Price List TH
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Push Button



with flat button, momentary

Black	1 NO	3SB6110-0AB10-1BA0	240.00
Black	1 NC	3SB6110-0AB10-1CA0	240.00
Red	1 NC	3SB6110-0AB20-1CA0	240.00
Yellow	1 NO	3SB6110-0AB30-1BA0	240.00
Green	1 NO	3SB6110-0AB40-1BA0	240.00
Blue	1 NO	3SB6110-0AB50-1BA0	240.00
White	1 NO	3SB6110-0AB60-1BA0	240.00

with raise button, momentary

Black	1 NO	3SB6110-0BB10-1BA0	240.00
Black	1 NC	3SB6110-0BB10-1CA0	240.00
Red	1 NC	3SB6110-0BB20-1CA0	240.00
Yellow	1 NO	3SB6110-0BB30-1BA0	240.00
Green	1 NO	3SB6110-0BB40-1BA0	240.00
Blue	1 NO	3SB6110-0BB50-1BA0	240.00
White	1 NO	3SB6110-0BB60-1BA0	240.00

Illuminated pushbuttons with flat button, momentary with integrated LED



24V AC/DC	Red	1 NC	3SB6113-0DB20-1CA0	550.00
	Yellow	1 NO	3SB6113-0DB30-1BA0	550.00
	Green	1 NO	3SB6113-0DB40-1BA0	550.00
	Blue	1 NO	3SB6113-0DB50-1BA0	550.00
	White	1 NO	3SB6113-0DB60-1BA0	550.00
220V AC/DC	Red	1 NC	3SB6116-0DB20-1CA0	550.00
	Yellow	1 NO	3SB6116-0DB30-1BA0	550.00
	Green	1 NO	3SB6116-0DB40-1BA0	550.00
	Blue	1 NO	3SB6116-0DB50-1BA0	550.00
	White	1 NO	3SB6116-0DB60-1BA0	550.00

Emergency-stop mushroom pushbuttons, Ø40mm



Twist to release	Red	1 NC	3SB6110-1HB20-1CA0	470.00
Pull to release	Red	1 NC	3SB6110-1HA20-1CA0	470.00
Key to release	Red	1 NC	3SB6110-1HD20-1CA0	680.00

3SB6 Pushbuttons & Indicator Lights

Complete Unit , Plastic , Round 22mm

4

Rated voltage of lamp V	Colour of Handle	Contacts	Order No.	Price List TH
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Selector Switch



Selector switches, 2 switch positions, short handle 90° operating angle

Black	1 NO	3SB6110-2AA10-1BA0	350.00
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Selector switches, 3 switch positions, short handle 2x60° operating angle

Black	2 x 1 NO	3SB6110-2AL10-1NA0	450.00
Black	2 x 1 NO	3SB6110-2AM10-1NA0	450.00
Black	2 x 1 NO	3SB6110-2AN10-1NA0	450.00
Black	2 x 1 NO	3SB6110-2AP10-1NA0	450.00



Selector switches, 2 switch positions, long handle 90° operating angle

Black	1 NO	3SB6110-2BA10-1BA0	450.00
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Selector switches, 3 switch positions, long handle 2x60° operating angle

Black	2 x 1 NO	3SB6110-2BL10-1NA0	550.00
Black	2 x 1 NO	3SB6110-2BM10-1NA0	550.00
Black	2 x 1 NO	3SB6110-2BN10-1NA0	550.00
Black	2 x 1 NO	3SB6110-2BP10-1NA0	550.00

Key-operated Switch



Key-operated switches, 2 switch positions

With 2 keys, 90° operating angle

Black	1 NO	3SB6110-4AA01-1BA0	650.00
Black	1 NO	3SB6110-4AA11-1BA0	650.00
Black	1 NO	3SB6110-4AA21-1BA0	650.00

Key-operated switches, 3 switch positions

With 2 keys, 2 x 60° operating angle

Black	1 NO	3SB6110-4AL01-1NA0	770.00
Black	1 NO	3SB6110-4AL11-1NA0	770.00
Black	1 NO	3SB6110-4AM01-1NA0	770.00

Twin Pushbuttons



Twin Pushbuttons

With flat and raised buttons, with I/O description

--	Green/Red	1 NO	3SB6110-3AA24-1MK0	580.00
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3SB6 Pushbuttons & Indicator Lights

Compact Pushbuttons and Indicator Lights
Complete Unit , Plastic , Round 22mm

Rated voltage of lamp V	Colour of Handle	Contacts	Order No.	Price List TH
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Compact pushbuttons

Compact pushbuttons, momentary



Black	1NO 1NC	3SB6210-0AB10-1FA0	210.00
Red	1NO 1NC	3SB6210-0AB20-1FA0	210.00
Yellow	1NO 1NC	3SB6210-0AB30-1FA0	210.00
Green	1NO 1NC	3SB6210-0AB40-1FA0	210.00
Blue	1NO 1NC	3SB6210-0AB50-1FA0	210.00
White	1NO 1NC	3SB6210-0AB60-1FA0	210.00
Black	1NO	3SB6210-0AB10-1BA0	190.00
Red	1NC	3SB6210-0AB10-1CA0	190.00
Red	1NC	3SB6210-0AB20-1CA0	190.00
Yellow	1NO	3SB6210-0AB30-1BA0	190.00
Green	1NO	3SB6210-0AB40-1BA0	190.00
Blue	1NO	3SB6210-0AB50-1BA0	190.00
White	1NO	3SB6210-0AB60-1BA0	190.00

Indicator lights



6V AC/DC	Red	3SB6211-6AA20-1AA0	240.00
	Yellow	3SB6211-6AA30-1AA0	240.00
	Green	3SB6211-6AA40-1AA0	240.00
	Blue	3SB6211-6AA50-1AA0	240.00
	White	3SB6211-6AA60-1AA0	240.00
12V AC/DC	Red	3SB6212-6AA20-1AA0	240.00
	Yellow	3SB6212-6AA30-1AA0	240.00
	Green	3SB6212-6AA40-1AA0	240.00
	Blue	3SB6212-6AA50-1AA0	240.00
	White	3SB6212-6AA60-1AA0	240.00
24V AC/DC	Red	3SB6213-6AA20-1AA0	240.00
	Yellow	3SB6213-6AA30-1AA0	240.00
	Green	3SB6213-6AA40-1AA0	240.00
	Blue	3SB6213-6AA50-1AA0	240.00
	White	3SB6213-6AA60-1AA0	240.00
110V AC/DC	Red	3SB6215-6AA20-1AA0	240.00
	Yellow	3SB6215-6AA30-1AA0	240.00
	Green	3SB6215-6AA40-1AA0	240.00
	Blue	3SB6215-6AA50-1AA0	240.00
	White	3SB6215-6AA60-1AA0	240.00
220V AC	Red	3SB6216-6AA20-1AA0	240.00
	Yellow	3SB6216-6AA30-1AA0	240.00
	Green	3SB6216-6AA40-1AA0	240.00
	Blue	3SB6216-6AA50-1AA0	240.00
	White	3SB6216-6AA60-1AA0	240.00
220V DC	Red	3SB6217-6AA20-1AA0	240.00
	Yellow	3SB6217-6AA30-1AA0	240.00
	Green	3SB6217-6AA40-1AA0	240.00
	Blue	3SB6217-6AA50-1AA0	240.00
	White	3SB6217-6AA60-1AA0	240.00

3SB6 Pushbuttons & Indicator Lights

3SB6 Accessories for Pushbuttons and Indicator Lights, 22mm

Rated voltage of lamp V	Colour of Handle	Contacts	Order No.	Price List TH
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Contact blocks

Contact blocks with one contact



1NO	3SB6400-1AA10-1BA0	110.00
1NC	3SB6400-1AA10-1CA0	110.00

Illumination modules

Illumination modules, with integrated LED



6V AC/DC	Red	3SB6401-1BA20-1AA0	160.00
	Yellow	3SB6401-1BA30-1AA0	160.00
	Green	3SB6401-1BA40-1AA0	160.00
	Blue	3SB6401-1BA50-1AA0	160.00
	White	3SB6401-1BA60-1AA0	160.00
12V AC/DC	Red	3SB6402-1BA20-1AA0	160.00
	Yellow	3SB6402-1BA30-1AA0	160.00
	Green	3SB6402-1BA40-1AA0	160.00
	Blue	3SB6402-1BA50-1AA0	160.00
	White	3SB6402-1BA60-1AA0	160.00
24V AC/DC	Red	3SB6403-1BA20-1AA0	160.00
	Yellow	3SB6403-1BA30-1AA0	160.00
	Green	3SB6403-1BA40-1AA0	160.00
	Blue	3SB6403-1BA50-1AA0	160.00
	White	3SB6403-1BA60-1AA0	160.00
48V AC/DC	Red	3SB6404-1BA20-1AA0	160.00
	Yellow	3SB6404-1BA30-1AA0	160.00
	Green	3SB6404-1BA40-1AA0	160.00
	Blue	3SB6404-1BA50-1AA0	160.00
	White	3SB6404-1BA60-1AA0	160.00
110V AC/DC	Red	3SB6405-1BA20-1AA0	240.00
	Yellow	3SB6405-1BA30-1AA0	240.00
	Green	3SB6405-1BA40-1AA0	240.00
	Blue	3SB6405-1BA50-1AA0	240.00
	White	3SB6405-1BA60-1AA0	240.00
220V AC	Red	3SB6406-1BA20-1AA0	240.00
	Yellow	3SB6406-1BA30-1AA0	240.00
	Green	3SB6406-1BA40-1AA0	240.00
	Blue	3SB6406-1BA50-1AA0	240.00
	White	3SB6406-1BA60-1AA0	240.00
220V DC	Red	3SB6407-1BA20-1AA0	240.00
	Yellow	3SB6407-1BA30-1AA0	240.00
	Green	3SB6407-1BA40-1AA0	240.00
	Blue	3SB6407-1BA50-1AA0	240.00
	White	3SB6407-1BA60-1AA0	240.00
380V DC	Red	3SB6408-1BA20-1AA0	240.00
	Yellow	3SB6408-1BA30-1AA0	240.00
	Green	3SB6408-1BA40-1AA0	240.00
	Blue	3SB6408-1BA50-1AA0	240.00
	White	3SB6408-1BA60-1AA0	240.00

MONITORING & CONTROL DEVICES

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FOR MORE INFORMATION SCAN THE QR CODE
& SEARCH FOR ITEM NUMBER



Relays



3UG Monitoring Relays:

The 3UG4 monitoring relays provide a maximum degree of protection for machines, plants and systems. Line and voltage faults are detected early and the appropriate response is initiated before significant damage can occur.



3RS Temperature Monitoring Relays:

3RS relays are used to measure temperatures in solid, liquid and gaseous mediums. The temperature is measured using a sensor that is placed in the medium, evaluated by the unit and monitored to determine whether it is within the upper and lower temperature limits. Depending on the function that has been parameterized, the output relay either switches on or off at these threshold values.



3RN Thermistor Motor Protection Relays

Thermistor Motor Protection Relays provide decisive advantages where current-dependent protection using either a circuit-breaker or an overload relay is not the perfect solution. In some cases, often as a result of external effects, overheating can occur without being detected by the thermal image in the circuit-breaker or overload relay.



3RP Timing relays:

Electronic timing relays are used for all switching operations involving time delays. Their fully developed concept and space-saving, compact design make the SIRIUS 3RP timing relays ideal modules for control cabinet, switchgear and control manufacturers in the industry.



7PV Timing relays:

With their narrow design, the 7PV15 timing relays are ideal in particular for use in heating, ventilation and air-conditioning systems and in compressors. All 7PV15 timing relays in this enclosure version are suitable for snap-on mounting onto TH35 standard mounting rails according to IEC 60175. The enclosure complies with DIN 43380



3RR2 Monitoring Relays

SIRIUS 3RR2 monitoring relays not only serve the monitoring of motors or other consumers, but additionally also facilitate optimum current monitoring of the entire system or driven process. This for example allows for the early detection and signalling of load shedding or overloads. The 3RR2 monitoring relay for current monitoring is directly integrated in the load feeder. It is simply plugged onto the contactor: Click 'n' go.

3UG Monitoring Relays

Line Monitoring



5

Adjustable hysteresis	Undervoltage detection	Overvoltage detection	Stabilization time adjustable	Tripping delay	Version of auxiliary Contacts	Rated Control Supply voltage Us at 50/60 Hz	Order No.	Price List TH
			s	s	CO Contact	V		

Monitoring of phase sequence

Auto RESET

--	--	--	--	--	1	160....260 AC	3UG4511-1AN20	4,738.00
					2		3UG4511-1AP20	4,738.00
					1	320....500 AC	3UG4511-1AQ20	4,738.00
					2		3UG4511-1BN20	5,428.00
					1	420....690 AC	3UG4511-1BP20	5,428.00
					2		3UG4511-1BQ20	5,428.00

Monitoring of phase sequence, phase failure and phase unbalance

Auto RESET, closed-circuit principle, unbalance threshold permanently 10%

--	--	--	--	--	1	160....690 AC	3UG4512-1AR20	5,212.00
					2		3UG4512-1BR20	6,074.00

Monitoring of phase sequence, phase failure, unbalance and undervoltage

Analogically adjustable, Auto RESET, closed-circuit principle, unbalance and undervoltage threshold permanently 20%

5% of set value	√	--	--	0.1....20	2	160....690 AC	3UG4513-1BR20	6,935.00
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Digitally adjustable, Auto or Manual RESET, open-circuit or closed-circuit principle, unbalance threshold 0 or 5...20%

Adjustable 1....20V	√	--	0.1....20	0.1....20	2	160....690 AC	3UG4614-1BR20	7,797.00
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Monitoring of phase sequence, phase failure, unbalance, overvoltage and undervoltage

Digitally adjustable, Auto RESET or Manual RESET, open-circuit or closed-circuit principle

Adjustable 1....20V	√	√	--	0.1....20	2	160....690 AC	3UG4615-1CR20	10,080.00
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Monitoring of phase sequence, phase and N conductor failure, overvoltage and undervoltage

Digitally adjustable, Auto RESET or Manual RESET, open-circuit or closed-circuit principle

Adjustable 1....20V	√	√	0.1....20	0.1....20	2	90....400 AC against N	3UG4616-1CR20	10,770.00
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Automatic direction correction in case of wrong phase sequence, phase failure, phase unbalance, overvoltage and undervoltage

Digitally adjustable, Auto RESET or Manual RESET, open-circuit or closed-circuit principle unbalance threshold 0 or 5...20%

Adjustable 1....20V	√	√	--	0.1....20	2	160....690 AC	3UG4617-1CR20	11,588.00
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Automatic correction of the direction of rotation in case of wrong phase sequence, phase failure, phase unbalance, overvoltage and undervoltage

Digitally adjustable, Auto RESET or Manual RESET, open-circuit or closed-circuit principle unbalance threshold 0 or 5...20%

Adjustable 1....20V	√	√	--	0.1....20	2	90....400 AC against N	3UG4618-1CR20	12,105.00
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Note:

√ Function available

-- Function not available

3UG Monitoring Relays

Voltage , Current, Power factor & Active current, Residual current monitoring

Measuring range	Adjustable hysteresis	Rated Control Supply voltage Us at 50/60 Hz	Order No.	Price List TH
V				

Voltage Monitoring

Internal power supply without auxiliary voltage, ON-delay and tripping delay times can be adjusted separately 0.1...20 s

Digitally Adjustable, LCD, Auto-RESET or manual RESET,
open-circuit or closed circuit principle

17...275 AC / DC	0.1	17...275 AC / DC	3UG4633-1AL30	7,539.00
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Supplied from an external auxiliary voltage, tripping delay time adjustable 0.1...20 s



Digitally Adjustable, LCD, Auto-RESET or manual RESET,
open-circuit or closed circuit principle

0.1...60 AC / DC	0.1...30	24 AC/ DC	3UG4631-1AA30	7,237.00
10...600 AC / DC	0.1...300		3UG4632-1AA30	7,237.00
0.1...60 AC / DC	0.1...30	24 AC/ DC	3UG4631-1AW30	7,883.00
10...600 AC / DC	0.1...300		3UG4632-1AW30	7,883.00

Current Monitoring

Monitoring of undercurrent and overcurrent, start-up delay and tripping delay times can be adjusted separately 0.1...20 s



Digitally Adjustable, LCD, Auto-RESET or manual RESET,
open-circuit or closed circuit principle

3...500 mA AC/ DC	0.1...250 mA	24 AC/ DC	3UG4621-1AA30	7,237.00
0.05...10 A AC / DC	0.01...5A		3UG4622-1AA30	7,237.00
3...500 mA AC/ DC	0.1...250 mA	240...240 AC / DC	3UG4621-1AW30	7,883.00
0.05...10 A AC / DC	0.01...5A		3UG4622-1AW30	7,883.00

Power factor and active current monitoring



PF:	PF:
0.10...0.99	0.1
Active current:	Active current:
0.2...10.0 A	0.1...2.0 A

3UG4641-1CS20	10,770.00
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Residual current Monitoring



Measurable current	Switching Hysteresis:
0.01...43	0...50

240...240 AC / DC	3UG4625-1CW30	11,200.00
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3RS Temperature Monitoring Relays

New

■ Selection and ordering data

PU (UNIT, SET, M) = 1

PS* = 1 unit

PG = 41H

Number of measuring circuits	Type of sensor/connectable	Rated control supply voltage Us 50/60 Hz AC	Suitability for use	SD Screw terminals	Price List TH	Spring-loaded terminals (push-in)	Price List TH
		V	d	Order No.		Order No.	

Temperature monitoring relays

Analog multi-function device, 1 sensor, 1 threshold value



1	Resistance	24 AC/DC	-	10	3RS2500-1AA30	1,050.18	3RS2500-2AA30	7,926.00
	sensors: Pt100	24 ... 240 AC/DC	-	10	3RS2500-1AW30	1,117.73	3RS2500-2AW30	8,400.00
	Thermocouples:							
	Type J, K							

Digital device, 1 sensor, 2 threshold values



1	Resistance	24 AC/DC	-	10	3RS2600-1BA30	2,112.64	3RS2600-2BA30	15,896.00
	sensors: Pt100, Pt1000,	24 ... 240 AC/DC	-	10	3RS2600-1BW30	2,266.17	3RS2600-2BW30	17,059.00
	KTY83-110,							
	KTY84, NTC							
	Thermocouples:							
	Type J, K, T, E, N,							
	S, R, B							

Digital device for IO-Link, 1 sensor, 2 threshold values



1	Resistance	24 AC/DC	-	10	3RS2800-1BA40	2,260.03	3RS2800-2BA40	17,016.00
	sensors: Pt100, Pt1000,							
	KTY83-110,							
	KTY84, NTC							
	Thermocouples:							
	Type J, K, T, E, N,							
	S, R, B							

Sensor expansion modules

2 additional resistance sensors, analog input

4 ... 20 mA, ATEX via analog input, status relay



3	Resistance	24 AC/DC	For	10	3RS2900-1AA30	1,001.05	3RS2900-2AA30	7,539.00
	sensors: Pt100, Pt1000,	24 ... 240 AC/DC	3RS26/	10	3RS2900-1AW30	1,117.73	3RS2900-2AW30	8,400.00
	KTY83-110,		3RS28					
	KTY84, NTC		digital					
			devices					

3RN Thermistor Motor Protection

For PTC sensors

Product Function	Contacts	Material of Switching contacts	Rated Control Supply voltage Us at 50/60 Hz	Order No.	Price List TH
V					

Compact evaluation unit, suitable for bimetallic switch



Terminals A1 is jumped with the root of the changeover contact

Auto RESET	1 CO	AgSnO2	24 AC/DC	3RN2000-1AA30	2,985.00
			24....240 AC / DC	3RN2000-1AW30	3,274.00
	1 NO + 1 NC	AgSnO2	24 AC/DC	3RN2010-1CA30	3,795.00
			24....240 AC / DC	3RN2010-1CW30	4,290.00

Standard evaluation unit, suitable for bimetallic switch

Auto RESET	2 CO	AgSnO2	24 AC/DC	3RN2010-1BA30	4,101.00
			24....240 AC / DC	3RN2010-1BW30	4,523.00

Bistable evaluation unit, open-circuit and short-circuit detection in the sensor circuit

Does not trigger in the event of control supply voltage failure

Auto RESET	2 CO	AgSnO2	24....240 AC / DC	3RN2012-1BW31	12,363.00
Manual RESET					
External RESET					
Error Memory					

Standard evaluation unit with ATEX approval, Open circuit and short-circuit detection in the sensor circuit ¹⁾



Manual RESET	2 CO	AgSnO2	24....240 AC / DC	3RN2011-1BA30	5,083.00
External RESET			24....240 AC / DC	3RN2011-1BW30	5,341.00
Non-volatile ³⁾					
Auto RESET	2 CO	AgSnO2	24....240 AC / DC	3RN2012-1BA30	6,978.00
Manual RESET			24....240 AC / DC	3RN2012-1BW30	7,539.00
External RESET					
Error Memory					
Protective separation, non-volatile ²⁾ ³⁾					
Auto RESET	2 CO	AgSnO2	24....240 AC / DC	3RN2013-1BA30	8,788.00
Manual RESET				3RN2013-1BW30	9,520.00
External RESET		AgSnO2		3RN2013-1GW30	9,994.00
Error Memory		Hard gold-plated			

Evaluation units with ATEX approval and 2 sensor circuits for warning and disconnection, open-circuit and short-circuit detection in both sensor circuits



Protective separation, non-volatile ²⁾ ³⁾					
Auto RESET	1 NO + 1 NC	AgSnO2	24....240 AC/ DC	3RN2023-1DW30	13,570.00
Manual RESET					
External RESET					
Error Memory					

1) For 3RN2011: The unit can be reset with the RESET button or by disconnecting the control supply voltage.

2) Protective separation up to 300V acc. To DIN/VDE 0160, IEC, 60947-1

3) Protective against voltage failure or non-volatile fault storage means that previous tripping due to fault remains stored even if the control supply voltage fails.

The monitoring device is not reset if the voltage fails. With an active fault, meaning a fault which has been manually confirmed, an automatic restart of the plant upon recovery of the power is prevented therefore and plant safety increased as the result.

3RP25 Timing Relays

17.5 mm and 22.5 mm

Number of NO Contact		Number of CO Contacts				Rated Control Supply voltage		Order No.	Price List TH
Instantaneous switching	Delayed switching	Instantaneous switching	Delayed switching	Semi-conductor output	Adjustable time	Us			
						AC 50/60 Hz V	DC V		

3RP2505 timing relays, 13 functions									
0	0	0	1	No	0.05 s....100 h	24	24	3RP2505-1AB30	5,557.00
						12...240	24	3RP2505-1AW30	6,246.00
0	1	0	0	Yes	0.05 s....1 00 h	12...240	24	3RP2505-1CW30	6,246.00
3RP2505 timing relays, 13 functions, suitable for railway applications									
0	0	---	2 ¹⁾	No	0.05 s....100 h	24...240	24...240	3RP2505-1RW30	9,219.00
3RP2505 timing relays, 27 functions									
0	0	---	2 ²⁾	No	0.05 s....100 h	24	24	3RP2505-1BB30	6,289.00
						400...440	---	3RP2505-1BT20	6,849.00
						12...240	12...240	3RP2505-1BW30	7,754.00
3RP2505 timing relays, ON-delay									
0	0	0	1	No	0.5...10 s	12...240	12...240	3RP2511-1AW30	2,985.00
					1...30 s	12...240	12...240	3RP2512-1AW30	2,985.00
					5...100 s	12...240	12...240	3RP2513-1AW30	2,985.00
					0.05 s.... 100 h	12...240	12...240	3RP2525-1AW30	3,868.00
0	0	0	2	No	0.05 s.... 100 h	24	24	3RP2525-1BB30	4,243.00
						12...240	12...240	3RP2525-1BW30	5,600.00
0	1	0	0	Yes	0.05 s....240 s	12...240	12...240	3RP2527-1EW30	2,985.00
3RP2505 timing relays, OFF-delay with control signal									
0	0	0	1	No	0.05 s ...100 h	12...240	12...240	3RP2535-1AW30	5,169.00
3RP2505 timing relays, OFF-delay without control signal, non-volatile, passing make contact									
0	0	0	1	No	0.05 s ...600 s	24	24	3RP2540-1AB30	6,418.00
						12...240	12...240	3RP2540-1AW30	7,151.00
0	0	0	2	No	0.05 s ...600 s	24	24	3RP2540-1BB30	7,495.00
						12...240	12...240	3RP2540-1BW30	8,357.00
3RP2505 timing relays, Clock-pulse relay, flashing, asymmetrical									
0	0	0	1	No	0.05 s ...100 h	12...240	12...240	3RP2555-1AW30	7,194.00
3RP2505 timing relays, star-delta function with coasting function (idling)									
1	2	0	0	No	1...20 s	12...240	12...240	3RP2560-1SW30	6,935.00
3RP2505 timing relays, star-delta function									
1	1	0	0	No	1...20 s	380...440 ³⁾	---	3RP2574-1NM20	4,437.00
						12...240	12...240	3RP2574-1NW30	3,868.00
1	1	0	0	No	3...60 s	380...440 ³⁾	---	3RP2576-1NM20	4,437.00
						12...240	12...240	3RP2576-1NW30	3,868.00

Note:

- Positively-driven contacts
- Optionally 1 CO delayed + 1 CO instantaneous
- with 3RP2574-.NM20, connection of 200...400V AC, 50/60 Hz control voltage is also possible

3RP20 Timing Relays

45 mm

Version	Time setting range t	Rated Control Supply voltage U_s		Order No.	Price List TH
		AC 50/60 Hz V	DC V		

3RP2005 timing relays, multifunction, 15 timing setting ranges



with LED and 1 CO contact, 8 function	0.05....1 s	24/100....127	24	3RP2005-1AQ30	6,031.00
	0.15....3 s	24/200...240	24	3RP2005-1AP30	6,031.00
	0.5....10 s				
	1.5....30 s				
with LED and 2 CO contacts, 16 function ¹⁾	0.05....1 min	24....240 ³⁾	24....240 ⁴⁾	3RP2005-1BW30	7,711.00
	5....100 s				
	0.15....3 min				
	0.5....10 min				
	1.5....30 min				
	0.05....1 h				
	5....100 min				
	0.15....3 h				
	0.5....10 h				
	1.5....30 h				
	5....100 h				
	∞ ²⁾				

3RP2025 timing relays, ON-delay, 15 timing setting ranges



with LED and 1 CO contact ¹⁾	0.05....1 s	24/100....127	24	3RP2025-1AQ30	3,829.00
	0.15....3 s	24/200...240	24	3RP2025-1AP30	3,971.00
	0.5....10 s				
	1.5....30 s				
	0.05....1 min				
	5....100 s				
	0.15....3 min				
	0.5....10 min				
	1.5....30 min				
	0.05....1 h				
	5....100 min				
	0.15....3 h				
	0.5....10 h				
	1.5....30 h				
	5....100 h				
	∞ ²⁾				

Note:

- ¹⁾ Units with electrical protective separation.
- ²⁾ With switch position no timing. For test purposes (ON/OFF function) on site. Relay is constantly on when activated, or relay remains constantly off when activated. Depending on which function is set.
- ³⁾ Operating range 0.8 to 1.1 x U_s .
- ⁴⁾ Operating range 0.7 to 1.1 x U_s .

7PV15 Timing Relays

in industrial enclosure, 17.5 mm

Version	Time setting range t adjustable by rotary switch to	Rated Control Supply voltage Us AC 50/60 Hz V	DC V	Order No.	Price List TH
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MULTIFUNCTION TIMING RELAYS with 7 Function

With LED and 1 CO Contact	0.05s ... 100h	12 ... 240	12...240	7PV1508-1AW30	3,243.00
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7PV15 08-1AW30

ON DELAY TIMING RELAYS with 1 Function

With LED and 1 CO Contact	0.05s ... 100s	24/200 ... 240	24	7PV1511-1AP30	1,705.00
		24/100...127	24	7PV1512-1AQ30	1,705.00
		24/200 ... 240	24	7PV1512-1AP30	1,705.00
		24/100...127	24	7PV1513-1AQ30	1,705.00
		24/200 ... 240	24	7PV1513-1AP30	1,705.00



7PV1512-1AP30

ON DELAY TIMING RELAYS with 7 Function

With LED and 1 CO Contact	0.05s ... 100h	12 ... 240	12...240	7PV1518-1AW30	2,201.00
		90...127	90...127	7PV1518-1AJ30	2,442.00
		180...240	180...240	7PV1518-1AN30	2,442.00



7PV15 18-1AW30

OFF DELAY TIMING RELAYS with 7 Function

With LED and 1 CO Contact with aux voltage	0.05s ... 100h	12 ... 240	12...240	7PV1538-1AW30	2,938.00
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7PV15 38-1AW30

7PV15 Timing Relays

in industrial enclosure, 17.5 mm

Version	Time setting range t adjustable by rotary switch to	Rated Control Us AC 50/60 Hz V	Supply voltage DC V	Order No.	Price List TH
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OFF DELAY TIMING RELAYS, without control signal with 7 Function



With LED and 0.05s ... 100h 12 ... 240 12...240 7PV1540-1AW30 3,709.00
1 CO Contact

7PV1540-1AW30

OFF DELAY TIMING RELAYS, clock-pulse relay with 7 Function



With LED and 0.05s ... 100h 12 ... 240 12...240 7PV1558-1AW30 3,756.00
1 CO Contact

7PV1558-1AW30

STAR-DELTA TIMING RELAYS with 7 Function



With LED and 0.05s ... 100h 12 ... 240 12...240 7PV1578-1BW30 2,524.00
2 CO contact

7PV15 78-1BW30

3RS70 Signal Converters

Coupling Relays and Signal Converters/ Interface Converters

Signal type		Rated Control Supply voltage U_s at 50/60 Hz	Width	Order No.	Price List TH
at the Input	At the output	V	mm		

Single-range converters

Passive

Type of electrical isolation, 2-way

4...20mA	4...20mA	---	6.2	3RS7020-1ET00	7,495.00
----------	----------	-----	-----	---------------	----------

Single-range converters

Active

Type of electrical isolation, 3-way



0...10V	0...10V	24 AC/DC	6.2	3RS7000-1AE00	7,625.00
0...20mA	0...10V	24 AC/DC	6.2	3RS7002-1AE00	7,625.00
4...20mA	0...10V	24 AC/DC	6.2	3RS7003-1AE00	7,625.00
0...10V	0...20mA	24 AC/DC	6.2	3RS7000-1CE00	7,625.00
0...20mA	0...20mA	24 AC/DC	6.2	3RS7002-1CE00	7,625.00
4...20mA	0...20mA	24 AC/DC	6.2	3RS7003-1CE00	7,625.00
0...10V	4...20mA	24 AC/DC	6.2	3RS7000-1DE00	7,625.00
0...20mA	4...20mA	24 AC/DC	6.2	3RS7002-1DE00	7,625.00
4...20mA	4...20mA	24 AC/DC	6.2	3RS7003-1DE00	7,625.00



Multi-range converters

Active, switchable

Type of electrical isolation, 3-way



0...10V	0...10V	24 AC/DC	6.2	3RS7005-1FE00	9,994.00
0...20mA	0...20mA	24...240 AC/DC	17.5	3RS7005-1FW00	13,957.00
4...20mA	4...20mA				
	0...50 Hz	24 AC/DC	6.2	3RS7005-1KE00	10,425.00
	0...100 Hz	24...240 AC/DC	17.5	3RS7005-1FW00	13,957.00
	0...1 kHz				
	0...10 kHz				

Multi-range converters

Active, with manual/ automatic switch and setting potentiometer

Type of electrical isolation, 3-way

0...10V	0...10V	24 AC/DC	17.5	3RS7025-1FE00	11,286.00
0...20mA	0...20mA	24...240 AC/DC	17.5	3RS7025-1FW00	17,921.00
4...20mA	4...20mA				

Universal converters

Active, switchable

Type of electrical isolation, 3-way



0...60 mV	0...10V	24 AC/DC	17.5	3RS7006-1FE00	14,517.00
0...100 mV	0...20mA	24...240 AC/DC	17.5	3RS7006-1FW00	17,145.00
0...300 mV	4...20mA				
0...500 mV					
0...1 V					
0...2 V					
0...5 V					
0...10 V					
0...20 V					
2...10 V					
0...5mA					
0...10mA					
0...20mA					
4...20mA					
-5...+5mA					
-20...+20mA					

3RR2 Monitoring Relays

for Mounting onto 3RT2 contactors



For Load monitoring of motors or other loads
 Multi-phase monitoring of undercurrent and overcurrent
 Starting and tripping delay can be adjusted separately
 Tripping delay 0...30s
 Auto or manual reset
 integrated directly in the feeder by mounting onto 3RT2 contactor;
 separate wiring of the main circuit is therefore superfluous.
 Standard version with display only

5

Size	Measuring Range	Hysteresis	Rated Control Supply Voltage Us	Order No.	Price List TH
	A	A	AC 50/60 Hz V		

Basic Version (Screw terminal)

Analog adjustable, closed-circuit principle, 1 CO,

2 phase current monitoring apparent current monitoring, start-up delay 0...60 s

S00	1.6...16	6.25% of threshold value	24 AC / DC 24...240 AC/DC	3RR2141-1AA30 3RR2141-1AW30	4,868.00 5,471.00
S0	4...40	6.25% of threshold value	24 AC / DC 24...240 AC/DC	3RR2142-1AA30 3RR2142-1AW30	5,815.00 6,375.00
S2	8...80	6.25% of threshold value	24 AC / DC 24...240 AC/DC	3RR2143-1AA30 3RR2143-1AW30	8,142.00 8,960.00

Standard Version (Screw terminal)

Digitally adjustable, LCD, open-circuit or closed-circuit principle, 1 CO,

1 semiconductor output, 3-phase current monitoring, active current or apparent current monitoring, phase sequence monitoring, residual current monitoring, blocking current monitoring, reclosing delay time 0 ... 300 min, start-up delay 0 ... 99 s, separate settings or warning and alarm thresholds

S00	1.6...16	0.1...3	24 AC / DC 24...240 AC/DC	3RR2241-1FA30 3RR2241-1FW30	9,822.00 10,253.00
S0	4...40	0.1...8	24 AC / DC 24...240 AC/DC	3RR2242-1FA30 3RR2242-1FW30	10,942.00 11,588.00
S2	8...80	0.2...16	24 AC / DC 24...240 AC/DC	3RR2243-1FA30 3RR2243-1FW30	14,259.00 15,078.00

Accessories

Terminal supports for stand-alone installation1)



For separate mounting of the overload relays or monitoring relays;
 screw and snap-on mounting onto TH35 standard mounting rail

S00	3RU2916-3AA01	512.00
S0	3RU2926-3AA01	624.00
S2	3RU2936-3AA01	844.00

LZS/ LZX Plug-In Relays

Plug-in relay coupling links can be ordered as complete units or as individual modules for customer assembly

The semiconductor couplers have a low power consumption and are therefore particularly well suited for solid-state systems

The LZS: PT/MT plug-in relay coupler into the switching state and to lock it. This is indicated by a raised petrol-coloured lever

Version	Rated Control Supply Voltage Us	Contacts number of CO Contacts	Width mm	Order No.	Price List TH
	AC 50/60 Hz V				

Complete units, 11- and 14-pole, PT series

Complete units with plug-in base

for snap-on mounting onto TH35 standard mounting rail comprising:

- Coupling relays with plug-in relays
- Standard plug-in base with screw terminals
- LED Module (version 24V DC: LED Module with freewheel diode)
- Fixing/ejection brackets
- Labels



3 CO contacts	24 DC	3	28	LZS:PT3A5L24	1,025.00
	24 AC			LZS:PT3A5R24	1,025.00
	115 AC			LZS:PT3A5S15	1,094.00
	230 AC			LZS:PT3A5T30	1,094.00
4 CO contacts	24 DC	4	28	LZS:PT5A5L24	1,025.00
	24 AC			LZS:PT5A5R24	1,025.00
	115 AC			LZS:PT5A5S15	1,094.00
	230 AC			LZS:PT5A5T30	1,094.00

Complete units with plug-in base with logical separation

for snap-on mounting onto TH35 standard mounting rail comprising:

- Coupling relays with plug-in relays
- Standard plug-in base with screw terminals
- LED Module (version 24V DC: LED Module with freewheel diode)
- Fixing/ejection brackets
- Labels



4 CO contacts	24 DC	4	28	LZS:PT5B5L24	1,025.00
	24 AC			LZS:PT5B5R24	1,025.00
	115 AC			LZS:PT5B5S15	1,094.00
	230 AC			LZS:PT5B5T30	1,094.00

LZS/ LZX Plug-In Relays

Coupling Relays with LZS/ LZX Plug-In Relays

Version	Rated Control Supply Voltage Us	Contacts number of CO Contacts	Width mm	Order No.	Price List TH
	AC 50/60 Hz V				

Individual modules for customer assembly, PT series

Industrial relays, 8-, 11-, and 14-pole

Mini Industrial relays

- with test bracket and mechanical switch position indicator, without LED



	24 DC	2	22.5	LZX:PT270024	407.00
		3		LZX:PT370024	407.00
		4		LZX:PT570024	407.00
	24 AC	2	22.5	LZX:PT270524	407.00
		3		LZX:PT370524	407.00
		4		LZX:PT570524	407.00
	115 AC	2	22.5	LZX:PT270615	473.00
		3		LZX:PT370615	473.00
		4		LZX:PT570615	473.00
	230 AC	2	22.5	LZX:PT270730	473.00
		3		LZX:PT370730	473.00
		4		LZX:PT570730	473.00
● with hard gold-plating					
	24 DC	4	22.5	LZX:PT580024	525.00
	230 AC			LZX:PT580730	672.00
● without test bracket					
	24 DC	4	22.5	LZX:PT520024	407.00
	230 AC			LZX:PT520730	473.00

Plug-in bases for PT relays

Standard plug-in bases

For mounting onto TH35 standard mounting rail

2	28	LZS:PT78720	291.00
3		LZS:PT78730	291.00
4		LZS:PT78740	291.00

Plug-in bases with logical separation

For mounting onto TH35 standard mounting rail

2	28	LZS:PT78722	291.00
4		LZS:PT78742	291.00



LZS/ LZX Plug-In Relays

Coupling Relays with LZS/ LZX Plug-In Relays

Version	Rated Control Supply Voltage Us	Contacts number of CO Contacts	Width mm	Order No.	Price List TH
	AC 50/60 Hz V				

Individual modules for customer assembly, PT series



LZS:PTML0024

More individual modules

LED modules

• Red

with freewheel diode	24 DC	--	12.5	LZS:PTML0024	192.00
without freewheel diode	24 AC/DC			LZS:PTML0524	192.00
	110...230 AC/DC			LZS:PTML0730	192.00



LZS:PTMG0024

• Green

with freewheel diode	24 DC	--	12.5	LZS:PTMG0024	203.00
without freewheel diode	24 AC/DC			LZS:PTMG0524	203.00
	110...230 AC/DC			LZS:PTMG0730	203.00



LZS:PT17021

Fixing/ejection brackets for PT base with logical separation

Screw terminals and plug-in terminals (push-in) –	26			LZS:PT17021	2,076.00
---	----	--	--	-------------	----------



LZS:PT17024

Fixing/ejection brackets for PT base without logical separation

Screw terminals				LZS:PT17024	2,102.00
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Labels

	--	--	26	LZS:PT17040	1,481.00
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LZS:PTMU0524

RC elements

	6...60 AC	--	26	LZS:PTMU0524	308.00
	110...230 AC			LZS:PTMU0730	308.00



LZS:PTMT00A0

Freewheel diodes with connection to A1

	6...230 DC		26	LZS:PTMT00A0	129.00
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3TX7004-8BA00

Connecting cables, 24-pole

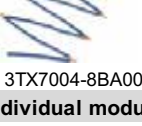
Current carrying capacity 12A				3TX7004-8BA00	1,292.00
with supply cable, blue					



LZS:PT170R6

Connecting combs for PT screw base

6-pole,				LZS:PT170R6	407.00
10A current carrying capacity, natural-coloured					



LZS:PT170P1

Connecting combs for PT screw base

2-pole,				LZS:PT170P1	70.00
10A current carrying capacity, natural-coloured					

Individual modules for customer assembly, PT series

Industrial relays, 11-pole



LZX:MT326024

Industrial relays with test bracket

Without LED	24 DC	3	35.5	LZX:MT321024	1,214.00
With LED				LZX:MT323024	1,460.00
Without LED	24 AC	3	35.5	LZX:MT326024	1,214.00
With LED				LZX:MT328024	1,460.00
Without LED	115 AC	3	35.5	LZX:MT326115	1,395.00
With LED				LZX:MT328115	1,822.00
Without LED	230 AC	3	35.5	LZX:MT326230	1,395.00
With LED				LZX:MT328230	1,822.00



LZS:MT78750

Plug-in bases

For mounting onto TH 35 standard mounting rail

	--	--	38	LZS:MT78750	348.00
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Fixing brackets

	--	--	38	LZS:MT28800	70.00
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LZS/ LZX Plug-In Relays

Coupling Relays with LZS/ LZX Plug-In Relays

Plug-in relay coupling links can be ordered as complete units or as individual modules for customer assembly
The semiconductor couplers have a low power consumption and are therefore particularly well suited for solid-state systems
The LZS: PT/MT plug-in relay coupler into the switching state and to lock it. This is indicated by a raised petrol-coloured lever

5

Version	Rated Control Supply Voltage Us	Contacts number of CO Contacts	Width mm	Order No.	Price List TH
	AC 50/60 Hz V				

Complete units, 8-pole, 5 mm pinning, RT series

Complete units with standard plug-in base

for snap-on mounting onto TH35 standard mounting rail comprising:

- Coupling relays with plug-in relays
- Standard plug-in base with screw terminals
- LED Module (version 24V DC: LED Module with freewheel diode)
- Fixing/ejection brackets
- Labels



1 CO contacts	24 DC	1	15.5	LZS:RT3A4L24	1,042.00
	24 AC			LZS:RT3A4R24	1,042.00
	115 AC			LZS:RT3A4S15	1,214.00
	230 AC			LZS:RT3A4T30	1,214.00
2 CO contacts	24 DC	2	15.5	LZS:RT4A4L24	1,102.00
	24 AC			LZS:RT4A4R24	1,102.00
	115 AC			LZS:RT4A4S15	1,257.00
	230 AC			LZS:RT4A4T30	1,257.00

Complete units with plug-in base with logical separation

for snap-on mounting onto TH35 standard mounting rail comprising:

- Coupling relays with plug-in relays
- Standard plug-in base with screw terminals
- LED Module (version 24V DC: LED Module with freewheel diode)
- Fixing/ejection brackets
- Labels



1 CO contacts	24 DC	1	15.5	LZS:RT3B4L24	1,042.00
	24 AC			LZS:RT3B4R24	1,042.00
	115 AC			LZS:RT3B4S15	1,214.00
	230 AC			LZS:RT3B4T30	1,214.00
2 CO contacts	24 DC	2	15.5	LZS:RT4B4L24	1,102.00
	24 AC			LZS:RT4B4R24	1,102.00
	115 AC			LZS:RT4B4S15	1,257.00
	230 AC			LZS:RT4B4T30	1,257.00

LZS/ LZX Plug-In Relays

Coupling Relays with LZS/ LZX Plug-In Relays

Version	Rated Control Supply Voltage Us	Contacts number of CO Contacts	Width	Order No.	Price List TH
	AC 50/60 Hz V		mm		

Individual modules for customer assembly, RT series



Print relays, 8-pole, 5mm pinning

Print relays

with hard gold-plating

Version with 1 CO contact

LZX:RT314024

24 DC	1	12.7	LZX:RT315024	320.00
230 AC			LZX:RT315730	486.00



Print relays

Version with 1 CO contact

LZS:RT78725

24 DC	1	12.7	LZX:RT314024	273.00
24 AC			LZX:RT314524	273.00
115 AC			LZX:RT314615	460.00
230 AC			LZX:RT314730	460.00

Version with 2 CO contacts



12 DC	2	12.7	LZX:RT424012	326.00
24 DC			LZX:RT424024	326.00
24 AC			LZX:RT424524	326.00
115 AC			LZX:RT424615	516.00
230 AC			LZX:RT424730	516.00

Standard plug-in bases

for mounting onto TH 35 standard mounting rail

LZS:RT78726

--	--	15.5	LZS:RT78725	348.00
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Plug-in bases with logical separation

for mounting onto TH 35 standard mounting rail

LZS:RT7872P

--	--	15.5	LZS:RT78726	348.00
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LED modules

• Red

with freewheel diode

without freewheel diode

LZS:RT7872P

24 DC	--	15.5	LZS:PTML0024	192.00
24 AC/DC			LZS:PTML0524	192.00
110...230 AC/DC			LZS:PTML0730	192.00

• Green

with freewheel diode

without freewheel diode

LZS:PTML0024

24 DC	--	15.5	LZS:PTMG0024	203.00
24 AC/DC			LZS:PTMG0524	203.00
110...230 AC/DC			LZS:PTMG0730	203.00

Fixing/ejection brackets

For RT base



LZS:RT17016

--	--	15.5	LZS:RT17016	3,480.00
----	----	------	-------------	----------

Labels



LZS:RT17040

--	--	15.5	LZS:RT17040	1,253.00
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RC elements

6 ... 60 AC

110 ... 230 AC

LZS:RT17040

6 ... 60 AC	--	15.5	LZS:PTMU0524	308.00
110 ... 230 AC			LZS:PTMU0730	308.00

Freewheel diodes with connection to A1

6...230 DC



LZS:RT17040

6...230 DC		26	LZS:PTMT00A0	129.00
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Connecting cables, 24-pole

Current carrying capacity 12A

with supply cable, blue



LZS:RT17040

--	--	2	3TX7004-8BA00	1,292.00
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Connecting combs for RT screw base

8-pole,

10A current carrying capacity, natural-colored



--	--	--	LZS:RT170R8	377.00
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Connecting brackets for push-in base

2-pole,

10A current carrying capacity, natural-colored

3TX7004-8BA00

			LZS:PT170P1	70.00
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SAFETY RELAYS

3SK SAFETY RELAYS	6-2
3SK1 STANDARD BASIC UNIT	6-3
3SK2 BASIC UNITS	6-4
3SK1 EXPANSION UNITS	6-5

FOR MORE INFORMATION SCAN THE QR CODE
& SEARCH FOR ITEM NUMBER





Overview:

SIRIUS 3SK safety relays are the key elements of a consistent, cost-effective safety chain. Whether you need EMERGENCY-STOP disconnection, protection door monitoring, light arrays, laser scanners or the protection of presses or punches - with SIRIUS Safety relays of width 22.5 mm every safety application can be implemented to optimum effect in terms of engineering and price.

The following safety-related functions are available:

- Monitoring the safety functions of sensors
- Monitoring the sensor leads
- Monitoring the correct device function of the safety relay
- Monitoring the actuators in the shutdown circuit
- Safety-related disconnection when dangers arise

SIRIUS 3SK safety relays stand out on account of their flexibility in both parameterization and system and system configurations with several evaluation units. Optimized solutions when selecting components are facilitated by a clearly structured component range:

- 1) 3SK1 Standard basic units
- 2) 3SK1 Advanced basic units
- 3) 3SK2 Basic units
- 4) 3SK1 Output expansions
- 5) 3SK1 Input expansions
- 6) Accessories

3SK1 Advanced basic units

The 3SK1 Advanced basic units also offer:

- Universal application possibilities thanks to multifunctionality
- Time-delayed outputs
- Expansion of inputs and outputs

3SK2 basic units

The 3SK2 basic units also offer:

- Up to six fail-safe, independent shutdown functions
- Flexible in use thanks to software parameterization
- Powerful semiconductor outputs
- User-friendly diagnostics using diagnostics display and configuring software

In the case of 3SK1 Advanced basic units or 3SK2 basic units, the 3ZY12 device connector allows safely functions involving several sensors and actuators to be constructed very quickly

3SK Safety Relay

Basic Units

3KS1 Standard basic units

- Simple, variable functionality
- recommended for safety functions requiring only a few sensors and a small number of outputs on the safety relay



Rated Control supply voltage Us		Number of outputs as contacting contact block			Number of outputs as contactless semiconductor contact block			Order No.	Price List TH
At 50 Hz		As NO contact, instantaneous switching	As NO contact, delayed switching	signalling function, instantaneous switching	instantaneous switching	delayed switching	signalling function, instantaneous switching		
At AC V	At DC V								
Standard basic units									
24	24	3	0	1	0	0	0	3SK1111-1AB30	14,525.00
110....240	110....240	3	0	1	0	0	0	3SK1111-1AW20	14,525.00
--	24	0	0	0	2	0	1	3SK1112-1BB40	11,536.00

3KS1 Advanced basic units

- form an innovative system landscape which allows even complex safety functions with large numbers of sensors and outputs to be configured using the device connectors
- increase both the number of inputs for sensors and the number of safe output of the basic unit without the need of wiring outlay between the devices



Rated Control supply voltage Us	Adjustable OFF-delay time	Number of outputs as contacting contact block			Number of outputs as contactless semiconductor contact block			Order No.	Price List TH
		As NO contact, instantaneous switching	As NO contact, delayed switching	signalling function, instantaneous switching	Instantaneous switching	delayed switching	signalling function, instantaneous switching		
At DC V	s								
Advanced basic units with relay outputs									
24	--	3	0	1	0	0	0	3SK1121-1AB40	18,458.00
24	0.05...3	2	2	0	0	0	0	3SK1121-1CB41	23,073.00
24	0.5...30	2	2	0	0	0	0	3SK1121-1CB42	23,073.00
24	5...300	2	2	0	0	0	0	3SK1121-1CB44	23,073.00
Advanced basic units with semiconductor outputs									
24	--	0	0	0	1	0	0	3SK1120-1AB40	11,064.00
24	--	0	0	0	3	0	0	3SK1122-1AB40	13,844.00
24	0.05...3	0	0	0	2	0	0	3SK1122-1CB41	13,844.00
24	0.5...30	0	0	0	2	0	0	3SK1122-1CB42	13,844.00
24	5...300	0	0	0	2	0	0	3SK1122-1CB44	13,844.00

3SK Safety Relay

3SK2 basic units

- have a large number of inputs and outputs within a narrow width
- demanding safety applications can be implemented simply with several independent safety functions
- flexible application options are enabled by powerful semiconductor outputs, as well as by expandability with additional 3SK output expansions and 3RM1 failsafe motor

Basic Units



Rated Control supply voltage U_s	Number of outputs as contactless semiconductor contact block, safety-related 2 channel	Number of outputs as contactless semiconductor contact block, non- safety-related 2 channel	Number of outputs to the device connector, safety-related	Order No.	Price List TH
At DC V					

3SK2 basic units

24	2	1	2	3SK2112-1AA10	28,422.00
	4	2	2	3SK2122-1AA10	41,794.00

3SK Safety Relay

Expansion Units

Output expansions

- can be used for Standard and Advanced basic units
- Perfect adaptation of the number of inputs
- Simple expansion of instantaneous and time-delayed outputs of Advanced basic units by means of a device connector and slide switch on an expansion module



Rated Control supply voltage Us		Number of outputs, switching instantaneously	Suitability for use 3ZY device connector	Order No.	Price List TH
At AC V	At 50 Hz At DC V				

4RO output expansions

24	--	4	--	3SK1211-1BB00	13,424.00
--	--	4	√	3SK1211-1BB40	13,424.00
110...240	110...240	4	--	3SK1211-1BW20	13,424.00

3RO output expansions

--	24	3	√	3SK1213-1AB40	19,560.00
115	--	3	--	3SK1213-1AJ20	19,560.00
230	--	3	--	3SK1213-1AL20	19,560.00

- √ : available
 -- : not available

Input expansions

- A wide voltage range of 110...240 V AC/DC allows the devices to be used worldwide
- Perfect adaptation of the number of inputs to suit the application
- Flexible expansion of the number of sensors without the need for additional wiring between and devices



Version	Order No.	Price List TH
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3SK1220 input expansion

For safety-related expansion of the Advanced basic units by adding a further two-channel sensor or two single-channel sensors

3SK1220-1AB40 11,064.00

3SK1230 power supplies

For supply Advanced basic units via 3ZY12 device connectors at voltages of 110... 240 V AC / DC

3SK1230-1AW20 9,177.00

Accessories

Device connectors for the electrical connection of SIRIUS devices in the industrial standard mounting rail enclosure

Device connectors

- For SK1, width 17.5mm	3ZY1212-1BA00	1,352.00
- For SK1, width 22.5mm	3ZY1212-2BA00	1,352.00
- For SK2 width 22.5mm	3ZY1212-2GA00	1,352.00
- For SK2 width 45mm	3ZY1212-4GA01	1,651.00

Device terminating connectors

- For SK1, width 22.5mm	3ZY1212-2DA00	1,452.00
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Device delay chain connectors

- For 3RM1 and 3SK, 24VDC, 22.5mm	3ZY1212-2AB00	1,242.00
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Device connectors

- For SK1210, width 22.5mm	3ZY1210-2AA00	345.00
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Device terminating connector set

- For SK1213, width > 45 mm	3ZY1212-0FA01	1,651.00
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Note:

Observe positions of the slide switch

SWITCH DISCONNECTORS

3KD SWITCH DISCONNECTORS UP TO 1600 A

7-2

3KF SWITCH DISCONNECTORS WITH FUSES
UP TO 800 A

7-3

FOR MORE INFORMATION SCAN THE QR CODE
& SEARCH FOR SWITCH DISCONNECTORS



Switch Disconnectors - 3KD

IEC 60947-3 and VDE 0660-107

Rated uninterrupted current I_u (A)	Order Number	Price List TH
--	--------------	------------------

Complete assemblies with direct operating mechanism, gray, front operating me

- The switch disconnectors are designed for floor mounting; sizes 1 and 2 can optionally be mounted on standard mounting rails.
- The complete assemblies are not suitable for conversion to door-coupling rotary operating mechanisms; the basic units are to be used for this purpose.

3-pole

Flat terminals

Cable connection covers must be provided for switch disconnectors with flat terminals and direct operating mechanisms



3KD2832-0NE10-0



3KD3632-0PE10-0

80	3KD2832-0NE10-0	7,286.00
100	3KD3032-0NE10-0	9,134.00
125	3KD3232-0NE10-0	10,612.00
160	3KD3432-0NE10-0	10,876.00
200	3KD3632-0PE10-0	16,104.00
250	3KD3832-0PE10-0	20,064.00
315	3KD4032-0PE10-0	22,651.00
400	3KD4232-0PE10-0	26,611.00
500	3KD4432-0QE10-0	37,857.00
630	3KD4632-0QE10-0	46,833.00
800	3KD4832-0QE10-0	59,664.00
1000	3KD5032-0RE10-0	103,488.00
1250	3KD5232-0RE10-0	146,784.00
1600	3KD5432-0RE10-0	179,520.00

4-pole

Flat terminals

Cable connection covers must be provided for switch disconnectors with flat terminals and direct operating mechanisms



3KD2842-0NE10-0



3KD5042-0RE10-0

80	3KD2842-0NE10-0	8,342.00
100	3KD3042-0NE10-0	10,824.00
125	3KD3242-0NE10-0	12,830.00
160	3KD3442-0NE10-0	13,094.00
200	3KD3642-0PE10-0	19,430.00
250	3KD3842-0PE10-0	24,340.00
315	3KD4042-0PE10-0	27,667.00
400	3KD4242-0PE10-0	32,630.00
500	3KD4442-0QE10-0	46,622.00
630	3KD4642-0QE10-0	58,080.00
800	3KD4842-0QE10-0	73,920.00
1000	3KD5042-0RE10-0	128,304.00
1250	3KD5242-0RE10-0	182,160.00
1600	3KD5442-0RE10-0	223,872.00

Switch Disconnectors With Fuses - 3KF

IEC 60947-3 and VDE 0660-107

Rated uninterrupted current I_u (A)	For LV HRC fuse	Order Number	Price List TH
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Complete assemblies with direct operating mechanism, gray,
front operating mechanism, for LV HRC fuses

The switch disconnectors are designed for floor mounting;
size 1 can optionally be mounted on standard mounting rails

3-pole

Flat terminals (exclude Fuse)



125	00/000	3KF2312-2LF11	16,262.00
160	00/000	3KF2316-2LF11	17,635.00
250	1	3KF3325-2LF11	26,928.00
400	2/1	3KF4340-2LF11	41,870.00
630	3/2	3KF5363-2LF11	78,144.00
800	3/2	3KF5380-2LF11	91,872.00

4-pole

Flat terminals (exclude Fuse)



125	00/000	3KF2412-2LF11	19,588.00
160	00/000	3KF2416-2LF11	21,278.00
250	1	3KF3425-2LF11	32,894.00
400	2/1	3KF4440-2LF11	51,532.00
630	3/2	3KF5463-2LF11	96,096.00
800	3/2	3KF5480-2LF11	114,576.00

Rated uninterrupted current I_u (A)	LV HRC fuse sizes	Order Number	Price List TH
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Applicable LV HRC fuses for switch disconnector with fuses: NH000 to NH4, characteristic Gg



16	000	3NA3805	432.00
20	000	3NA3807	432.00
25	000	3NA3810	432.00
32	000	3NA3812	432.00
40	000	3NA3817	377.00
63	000	3NA3822	350.00
80	000	3NA3824	350.00
100	000	3NA3830	350.00
125	000	3NA3832	320.00
160	00	3NA3836	460.00
200	1	3NA3140	1,000.00
250	1	3NA3144	1,000.00
300	2	3NA3250	1,368.00
350	2	3NA3254	1,368.00
400	2	3NA3260	1,368.00
500	3	3NA3365	2,657.00
630	3	3NA3372	2,657.00
800	4	3NA3475	23,716.00

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