Contactors & Relays for Safety Applications

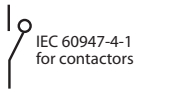
SIRIUS

3RT10 safety contactors, 3RH12 safety control relays with permanently mounted auxiliary contact blocks

Application

"Safety" Contactors

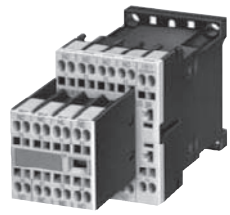
Safety rated contactors are required to have mirrored contact construction according to IEC 60947-4 Annex F. A mirror contact is a Normally Closed (NC) auxiliary contact which can not be closed simultaneously with a Normally Open (NO) main contact. In some industries, such as Automotive, the auxiliary contact blocks are required to be permanently attached to meet the requirements of "unitentional misuse" as specified in IEC 60292, paragraph 3.12. Tested by SUVA.



3RT102*-1AK64-3MA0

"Safety" Control Relays

Safety rated control relays are required to have positively driven contact elements according to IEC 60947-5-1 Annex L. Positively driven contact elements are a combination of NO auxiliary contacts and NC auxiliary contacts whose construction prevents them from being closed simultaneously. In some industries, such as automotive, the auxiliary contact blocks are required to be permanently attached to meet the requirements of "unitentional misuse" as specified in IEC 60292, paragraph 3.12. Tested by SUVA.



3RH12**-2BB40

Selection and ordering data

Contactors with permanently mounted auxiliary contact blocks

Frame size	Amp ratings		Single phase HP ratings		Three phase HP ratings				Auxiliary contacts: Base device		Auxiliary contacts: Contact block		Screw terminals	Spring loaded terminals[1]	Weight approx. AC/DC
	AC3	AC1	115 V	230 V	200 V	230 V	**460 V**	575 V	NO	NC	NO	NC	**Order No.**[2]	**Order No.**[2]	kg
S00	**7**	18	0.25	0.75	1.5	2	**3**	5	1	0	2	2	**3RT1015-1●●●4-3MA0**	**3RT1015-2●●●1-3MA0**	0.20/0.26
	9	22	0.33	1	2	3	**5**	7.5	1	0	2	2	**3RT1016-1●●●4-3MA0**	**3RT1016-2●●●1-3MA0**	
	12	22	0.5	2	3	3	**7.5**	10	1	0	2	2	**3RT1017-1●●●4-3MA0**	**3RT1017-2●●●1-3MA0**	
S0	**12**	40	0.5	2	3	3	**7.5**	10	0	0	2	2	**3RT1024-1●●●4-3MA0**	**3RT1024-3●●●0-3MA0**	0.35/0.58
	17	40	1	3	5	5	**10**	15	0	0	2	2	**3RT1025-1●●●4-3MA0**	**3RT1025-3●●●0-3MA0**	
	25	40	2	3	7.5	7.5	**15**	20	0	0	2	2	**3RT1026-1●●●4-3MA0**	**3RT1026-3●●●0-3MA0**	
S2	**32**	50	2	5	10	10	**25**	30	0	0	2	2	**3RT1034-1●●●4-3MA0**	**3RT1034-3●●●0-3MA0**	0.85/1.45
	40	60	3	7.5	10	15	**30**	40	0	0	2	2	**3RT1035-1●●●4-3MA0**	**3RT1035-3●●●0-3MA0**	
	50	60	3	10	15	15	**40**	50	0	0	2	2	**3RT1036-1●●●4-3MA0**	**3RT1036-3●●●0-3MA0**	
S3	**65**	100	5	15	20	25	**50**	60	0	0	2	2	**3RT1044-1●●●4-3MA0**	**3RT1044-3●●●0-3MA0**	1.8/2.8
	80	120	7.5	15	25	30	**60**	75	0	0	2	2	**3RT1045-1●●●4-3MA0**	**3RT1045-3●●●0-3MA0**	
	95	120	10	–	30	30	**75**	100	0	0	2	2	**3RT1046-1●●●4-3MA0**	**3RT1046-3●●●0-3MA0**	
S6	**150**	185	–	–	50	60	**125**	150	0	0	2	2	**3RT1055-1●●●6-3PA0**	–	3.5
	185	215	–	–	60	75	**150**	200	0	0	2	2	**3RT1056-1●●●6-3PA0**	–	

Frame sizes S00-S3 120 V AC Coil =	**AK6**	**AK6**
24 V DC Coil =	**BB4**	**BB4**
Frame size S6 110..127 V AC/DC Coil =	**AF3**	
23..26 V AC/DC Coil =	**AB3**	

Control Relays with permanently mounted auxiliary contact blocks

Frame size	UL Amp ratings	IEC Amp rating	UL Contact rating	Auxiliary contacts: Total		Base device		Contact block		Screw terminals	Spring loaded terminals[1]	Weight approx. AC/DC
	600 V AC	230 V AC		NO	NC	NO	NC	NO	NC	**Order No.**[2]	**Order No.**[2]	kg
120 V AC Coil [2]												
S00	**10 A**	6 A	A600/P600	**4**	**4**	4	0	0	4	**3RH1244-1AK60**	**3RH1244-2AK60**	0.20/0.26
				5	**3**	4	0	1	3	**3RH1253-1AK60**	**3RH1253-2AK60**	
				6	**2**	4	0	2	2	**3RH1262-1AK60**	**3RH1262-2AK60**	
				7	**1**	4	0	3	1	**3RH1271-1AK60**	**3RH1271-2AK60**	
24 V DC Coil [2]												
S00	**10 A**	6 A	A600/P600	**4**	**4**	4	0	0	4	**3RH1244-1BB40**	**3RH1244-2BB40**	0.20/0.26
				5	**3**	4	0	1	3	**3RH1253-1BB40**	**3RH1253-2BB40**	
				6	**2**	4	0	2	2	**3RH1262-1BB40**	**3RH1262-2BB40**	
				7	**1**	4	0	3	1	**3RH1271-1BB40**	**3RH1271-2BB40**	

[1]) All terminals are spring loaded on frame size S00. Only the coil and auxiliary contact terminals are spring loaded on frame sizes S0, S2, S3 & S6.

[2]) Additional Coil Voltages and Frame Sizes available upon request.

For accessories, see pages 2/35-51.
For spare parts, see pages 2/54-58.
For technical data, see pages 2/86-107.
For description, see pages 2/65-66.
For int. circuit diagrams, see page 2/156.
For dimension drawings, see pages 2/172-175.