SIEMENS

Data sheet

3RT2038-1AK60-1AA0



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2, upright mounting position

product brand name SIRIUS product designation Power contactor product type designation 3RT2 General technical data S2 product extension S2 • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current S2
product type designation 3RT2 General technical data S2 size of contactor S2 product extension No • function module for communication No • auxiliary switch Yes
General technical data size of contactor S2 product extension • function module for communication No • auxiliary switch Yes
size of contactor S2 product extension No • function module for communication No • auxiliary switch Yes
product extension No • function module for communication No • auxiliary switch Yes
function module for communication auxiliary switch Yes
auxiliary switch Yes
power loss IWI for rated value of the current
• at AC in hot operating state 17.1 W
• at AC in hot operating state per pole 5.7 W
• without load current share typical 6.5 W
insulation voltage
of main circuit with degree of pollution 3 rated value 690 V
of auxiliary circuit with degree of pollution 3 rated value 690 V
surge voltage resistance
of main circuit rated value 6 kV
of auxiliary circuit rated value 6 kV
maximum permissible voltage for protective separation between 400 V coil and main contacts according to EN 60947-1 400 V
shock resistance at rectangular impulse
• at AC 11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse
• at AC 18.5g / 5 ms, 11.6g / 10 ms
mechanical service life (operating cycles)
of contactor typical 10 000 000
of the contactor with added electronically optimized 5 000 000 auxiliary switch block typical
of the contactor with added auxiliary switch block typical 10 000 000
reference code according to IEC 81346-2 Q
Substance Prohibitance (Date) 10/01/2014
Ambient conditions
installation altitude at height above sea level maximum 2 000 m
ambient temperature
• during operation -25 +60 °C
• during storage -55 +80 °C
relative humidity minimum 10 %
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum
Main circuit
number of poles for main current circuit 3

number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated	90 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	90 A
— up to 690 V at ambient temperature 60 $^\circ C$ rated value	80 A
• at AC-3	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
• at AC-3e	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
at AC-4 at 400 V rated value	55 A
at AC-5a up to 690 V rated value	79.2 A
at AC-5b up to 400 V rated value	66.4 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	70 A
— up to 400 V for current peak value n=20 rated value	70 A
— up to 500 V for current peak value n=20 rated value	70 A
— up to 690 V for current peak value n=20 rated value	58 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	46.7 A
— up to 400 V for current peak value n=30 rated value	46.7 A
— up to 500 V for current peak value n=30 rated value	46.7 A
— up to 690 V for current peak value n=30 rated value	46.7 A
minimum cross-section in main circuit at maximum AC-1 rated value	35 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	30 A
at 690 V rated value	24 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	

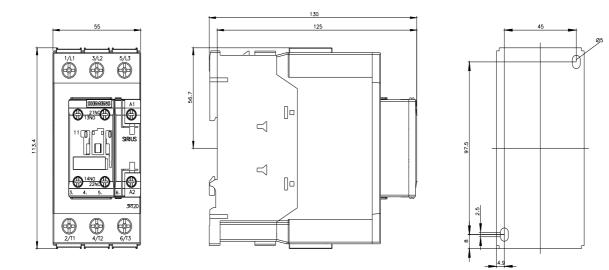
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
at AC-2 at 400 V rated value	37 kW
• at AC-3	
- at 230 V rated value	22 kW
— at 200 V rated value	37 kW
	37 KW
- at 500 V rated value	
— at 690 V rated value	45 kW
• at AC-3e	
- at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	37 kW
— at 690 V rated value	45 kW
operating power for approx. 200000 operating cycles at AC- 4	
 at 400 V rated value 	15.8 kW
at 690 V rated value	21.8 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	27.8 kVA
• up to 400 V for current peak value n=20 rated value	48.4 kVA
• up to 500 V for current peak value n=20 rated value	60.6 kVA
	69.3 kVA
up to 690 V for current peak value n=20 rated value	00.0 KVA
operating apparent power at AC-6a	18.6 kV/A
up to 230 V for current peak value n=30 rated value	18.6 kVA
• up to 400 V for current peak value n=30 rated value	32.3 kVA
up to 500 V for current peak value n=30 rated value	40.4 kVA
up to 690 V for current peak value n=30 rated value	55.8 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	1 298 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	898 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	640 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	414 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	333 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
at AC-1 maximum	700 1/h
	350 1/h
• at AC-2 maximum	
• at AC-3 maximum	500 1/h
at AC-3e maximum	500 1/h
at AC-4 maximum	150 1/h
Control circuit/ Control	

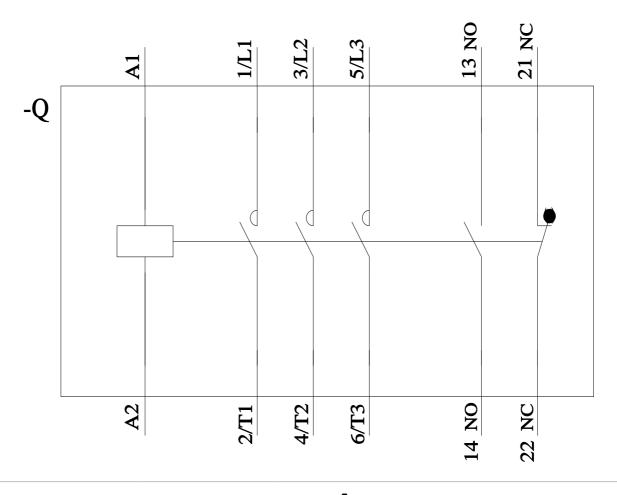
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	110 V
• at 60 Hz rated value	120 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	212 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	
• at 50 Hz	18.5 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.36
• at 60 Hz	0.39
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact number of NO contacts for auxiliary contacts instantaneous	1
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
 at 230 V rated value 	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
 at 48 V rated value 	6 A
 at 60 V rated value 	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	1 A
• at 600 V rated value	
	1 A
• at 600 V rated value	1 A
at 600 V rated value operational current at DC-13	1 A 0.15 A
at 600 V rated value operational current at DC-13 e at 24 V rated value	1 A 0.15 A 10 A
at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value	1 A 0.15 A 10 A 2 A
at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value	1 A 0.15 A 10 A 2 A 2 A
at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 10 V rated value	1 A 0.15 A 10 A 2 A 2 A 1 A
at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value	1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A
at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts	1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A
at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value	1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts	1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 220 V rated value at 220 V rated value at 600 V rated value ut/csA ratings	1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value totat value at 600 V rated value	1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 10 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value	1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 65 A
at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value tat 600 V rated value tat 600 V rated value totat reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value	1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 65 A
at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value tat 250 V rated value at 600 V rated value at 600 V rated value tat 600 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 600 V rated value	1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 65 A

for 3-plane AC motor					
	— at 230 V rated value	15 hp			
- at 22023U vraid value 25 hp - at 572680 V raid value 60 hp Contact rating of auxiliary contacts according to UL A650 / P600 Stort direct protection of the main circuit - - with type of condination 1 required - - with type of condination 1 required - - with type of assignment 2 required - - for Advactured protein - - advactured assisting - - downwards 10 mm - downwards 10 mm <tr< td=""><td>-</td><td></td></tr<>	-				
	— at 220/230 V rated value	25 hp			
control ratio A000 / P600 Short-discult protection A000 / P600 Gesign of the fuse link - - with type of conditionation 1 required gis 250 A (600 V, 100 kA), akt. 160 A (600 V, 100 kA), BSB: 125A (415 V, 80 A) - with type of assignment 2 required gis 150 A (600 V, 100 kA), akt. 160 A (600 V, 100 kA), BSB: 125A (415 V, 80 A) - with type of conditionating dimensionating sufficience standing, on horizontal mounting sufficience mounting position standing, on horizontal mounting sufficience mounting position standing, on horizontal mounting sufficience required spacing Yes height 114 mm with side-by-side mounting Yes height 114 mm with side-by-side mounting Yes - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards	— at 460/480 V rated value	50 hp			
Signer-Circuit protection design of the fuse link - with type of conditation 1 required - with type of assignment 2 required restation mounting dimensions mounting particul produced the auxilary solutich required scale-by-side mounting restation mounting of the fuse and any solutich required scale-by-side mounting - side-by-side mounting - with side-by-side mounting - with side-by-side mounting - forwards - forwards - ownwards - forwards - forwards - forwards - forwards - forwards - downwards - forwards	— at 575/600 V rated value	60 hp			
design of the fues link or short circuit protection of the main circuit with type of coordination 1 required p; C: 250 A (680 V, 100 kA), akt: 180 A (690 V, 100 kA), BS88: 200 A (415 V, 80 KA) of a short circuit protection of the auxilary solution required g; C: 160A (690V, 100 kA), akt: 180 A (690 V, 100 kA), BS88: 125A (415V, 80 KA) g; G: 0 a (690V, 100 kA), akt: 180 A (690 V, 100 kA), BS88: 125A (415V, 80 KA) g; G: 0 a for short circuit protection of the auxilary solution required g; G: 0 a (690V, 100 kA), akt: 180 A (690 V, 100 kA), BS88: 125A (415V, 80 KA) g; G: 0 a for short circuit protection of the auxilary solution required g; G: 0 a (690V, 100 kA), akt: 180 A (690 V, 100 kA), BS88: 125A (415V, 80 KA) g; G: 0 a for short circuit protection of the auxilary solution required g; G: 0 a (690V, 100 kA), akt: 180 A (690 V, 100 kA), BS88: 125A (415V, 80 KA) g; G: 0 a for short circuit grouted and solution g; G: 0 a (690V, 100 kA), akt: 180 A (690 V, 100 kA), BS88: 125A (415V, 80 KA) g; G: 0 a (600 V, 100 kA), akt: 180 A (690 V, 100 kA), BS88: 125A (415V, 80 KA) g; G: 0 a (600 V, 100 kA), akt: 180 A (690 V, 100 kA), akt: 180 A (700 KA), akt: 180 A (700 KA), akt: 180 A (700 KA), akt: 180	contact rating of auxiliary contacts according to UL	A600 / P600			
for short-circuit protection of the main circuit with type of excellantian 1 required gG: 260 A (680 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 200 A (415 V, 80 SQ) with type of essignment 2 required gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125A (415V/B0KA) results of the auxiliary switch required gG: 10 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125A (415V/B0KA) results of the auxiliary switch required gG: 10 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125A (415V/B0KA) results of the auxiliary switch required gG: 10 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125A (415V/B0KA) results of the auxiliary switch required gG: 10 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125A (415V/B0KA) results of the auxiliary switch required gG: 10 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125A (415V/B0KA) results of the auxiliary switch required gG: 10 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125A (415V/B0KA) results of the auxiliary switch required gG: 10 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125A (415V/B0KA) results of the auxiliary switch required gG: 10 A (590 V, 110 kA), aM: 80 A (690 V, 100 kA), aM: 80 A (6	Short-circuit protection				
with type of assignment 2 required qS: 280.4 (860 V. 100 kA), akt: 80A (690 V. 100 kA), BS88: 200 A (415 V. 80 A) with type of assignment 2 required qS: 100 A (600 V. 100 kA), akt: 80A (690 V. 100 kA), BS88: 125A (415V.80 kA) with type of assignment 2 required qS: 100 A (600 V. 100 kA), akt: 80A (690 V. 100 kA), BS88: 125A (415V.80 kA) mounting contents standing, on horizontal mounting surface mounting contents standing, on horizontal mounting surface	design of the fuse link				
iA) iA) - with type of assignment 2 required iG: 10 A (600 V. 100k.), iAI: 80A (600 V. 100k.), BSB: 125A (415V.80k.) installation/mounting/dimensions installation/mounting/dimensions mounting postion///instance screw and sanap-on mounting onto 35 mm DIN rail according to DIN EN 60715 is side-by-side mounting Yes height 114 mm with 65 mm dopt 130 mm required spacing 0 mm - forwards 10 mm - downwards 10 mm - at the side 0 mm - downwards 10 mm <t< td=""><td> for short-circuit protection of the main circuit </td><td></td></t<>	 for short-circuit protection of the main circuit 				
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting orients standing, on horizontal mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 iside-byside mounting Yes height 114 mm width 55 mm dopth 130 mm required spacing 0 - forwards 10 mm - downards 10 mm - downards 10 mm - downards 10 mm - at the side 0 mm - forwards 10 mm - downards 10 mm - do	- with type of coordination 1 required				
Installation/mounting dimensions standing, on horizontal mounting surface mounting position state-ing method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting Yes height 114 mm witch 65 mm depth 130 mm required spacing 0 mm • with side-by-side mounting 0 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - for gounded parts 0 mm - for gounded parts 0 mm - downwards 10 mm - for auxia current circuit screw-type terminals - for auxi	 — with type of assignment 2 required 	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
mounting position standing, on horizontal mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60716 side-by-side mounting Yes height 114 mm width 55 mm depth 130 mm required spacing 100 mm - drowards 10 mm - drowards <td> for short-circuit protection of the auxiliary switch required </td> <td>gG: 10 A (500 V, 1 kA)</td>	 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)			
festening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting Yes width 55 mm depth 130 mm required spacing 10 mm • with side-by-side mounting 10 mm • upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - for auxilary and control frout screw-type terminals tor auxilary control frout screw-type terminals • for auxilary and control for cutil screw-type terminals • for auxilary and control for cutil screw-type terminals • for auxilary contacts	Installation/ mounting/ dimensions				
• side-by-side mounting Yes height 114 mm width 65 mm depth 130 mm required spacing - - forwards 10 mm - upwards 10 mm - downwards 10 mm - of maine 5 crew-type terminals solid or straneled	mounting position	standing, on horizontal mounting surface			
• side-by-side mounting Yes height 114 mm width 65 mm depth 130 mm required spacing - - forwards 10 mm - upwards 10 mm - downwards 10 mm - of maine 5 crew-type terminals solid or straneled		screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height 114 mm width 55 mm dopth 130 mm required spacing 10 mm - (pwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - for auxiliary and control circuit screew-type terminals standard with core and processing 2x (1 35 mm ³), 1x (1 50 mm ³) <td< td=""><td>-</td><td></td></td<>	-				
with 55 mm depth 130 mm required spacing 130 mm - forwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm </td <td></td> <td></td>					
depth 130 mm required spacing					
required spacing • with side-by-side mounting - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 0 mm - for avonds 10 mm - upwards 10 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - at the side 6 mm - downwards 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - upwards 10 mm - the side 6 mm Connections/ Terminals 5 mm Ypp of electrical connection screw-type terminals is contact or auxiliary and control circuit screw-type terminals is for auxiliary contacts Screw-type terminals of magnet coil Screw-type terminals tor auxiliary contact 2x (1 35 mm ²)					
• with side-by-side mountingI 0 mm- forwards10 mm- downwards10 mm- downwards00 mm- at the side0 mm- at the side0 mm- forwards10 mm- upwards10 mm- upwards10 mm- upwards0 mm- downwards0 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards0 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards5 mm- for auxiliary contacts5 crew-type terminals- for auxiliary contacts2 x (1 35 mm²)- for auxiliary contacts5 mm²- for auxiliary contacts5 mm²- for auxiliary contacts5 mm²- for auxiliary contacts5 mm²- for auxiliary contacts2 x (0 5 15 mm²), 1x (1 35 mm²)- for auxiliary contacts2 x (0 5 15 mm²), 2 x (0 7 5 25 mm²)- for auxiliary contacts2 x (0 5 15 mm²), 2 x (0 7 5 25 mm²)- for auxiliary	· · ·				
		10 mm			
-00nm-at the side0nm-for grounded parts0nmfor wards10nm-upwards10nm-at the side6nm-ownwards10nm-at the side6fm-ownwards10nm-ownwardssold or stranded2of maje toolitruesold or stranded2x (1 25 mm ²), 1x (1 50 mm ²)type of ownetable conducto					
at the side0 mm• for grounded parts forwards10 mm upwards10 mm at the side6 mm downwards10 nm downwards10 nm forwards10 mm forwards10 mm upwards10 mm downwards6 mm downwards5 mm downwards2 x (1 35 mm ²) for auxiliary contacts2 x (1 35 mm ²) for auxiliary contacts2 x (1 35 mm ²) forley stranded with core end processing1 35 mm ² solid or stranded0 5 2 5 mm ² solid or stranded2 x (0 .5 1 5 mm ²) 2 x (0 .75 2 5 mm ²) forky stranded with core end processing2 x (0 .5 1 5 mm ²) 2 x (0 .75 2 5 mm ²) forky stranded with core end processing2 x (0 .5 1 5 mm ²) 2 x (0 .75 2 5 mm ²) solid or stranded2 x (0 .5 1 5 mm ²) 2 x (0 .75 2 5 mm ²) <trr></trr>					
• for grounded parts·- forwards10 mm- upwards10 mm- upwards0 mm- downwards10 mm- downwards10 mm- for vards10 mm- forwards10 mm- upwards10 mm- downwards10 mm- downwardsScrew-type terminals- for auxiliary contactsScrew-type terminals- of magnet coilScrew-type terminals- for auxiliary contacts2x (1 35 mm²), 1x (1 50 mm²)- finely stranded with core end processing2x (1 35 mm²)- finely stranded with core end processing0.5 2.5 mm²- solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- finely stranded with core end processing2x (0.5 1.5 mm²), 2x (
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• for auxiliary contacts 20 14	section				
Safety related data		20 14			
	Safety related data				

product function						
 mirror contact a 	ccording to IEC 60947-4-1		Yes			
 positively driven 	operation according to IE	C 60947-5-1	No			
suitability for use safet	y-related switching OFF		Yes			
B10 value with high de	emand rate according to SI	N 31920	1 000 000			
proportion of danger						
	d rate according to SN 319	20	40 %			
	nd rate according to SN 31		73 %			
	by demand rate according		100 FIT			
61508	interval or service life acco	braing to IEC	20 a			
protection class IP or	n the front according to	EC 60529	IP20			
-	the front according to IE		finger-safe, for vertical contac	t from the front		
ertificates/ approvals						
General Product App						
Concrain Freduct App						
() ()		<u>Confirmation</u>		KC	EAC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of C	Conformity	Test Certificates		
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	
Marine / Shipping	BUREAU VERITAS		Lloyds Register us	PRS	RINA	
Marine / Shipping	other		Railway	Dangerous Good		
KMRS RMRS	<u>Confirmation</u>	<u>Confirmation</u>	Vibration and Shock	Transport Information		
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