SIEMENS

Data sheet 3RT2024-2NP30



power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NO + 1 NC, AC (50-60 Hz) DC operation 200-280 V AC/DC 3-pole, Size S0 Spring-type terminal

product type designation Power contactor product type designation Size of contactor product extension • function module for communication • at AC in hot operating state per pole • of main circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value • of aminication with degree of pollution 3 rated value • of main circuit rated value • of main circuit rated value • of aminication with added value • of auxiliary circuit rated value • at AC • at DC shock resistance at rectangular impulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC sobotactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum • during operation • during gtorage 2000 m ambient temperature • during operation • during storage	product brand name	SIRIUS
Separate technical data Size of contactor S0	product designation	Power contactor
size of contactor product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • without load current share typical Insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of an in circuit rated value • of main circuit rated value • of of auxiliary circuit rated value • of water voltage for safe isolation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at DC shock resistance with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation	product type designation	3RT2
product extension • function module for communication • auxilliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of main circuit rated value • of auxiliary circuit rated value • of the contactor with sine pulse • at AC • at DC shock resistance at rectangular impulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC	General technical data	
• function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value • of main circuit rated value • of main circuit rated value • of auxiliary circuit rated value • at AC • at DC shock resistance at rectangular impulse • at AC • at DC at DC shock resistance with sine pulse • at AC • at DC at DC shock resistance with sine pulse • at AC • at DC of contactor lytical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation Possible contactor -25 +60 °C	size of contactor	S0
auxiliary switch power loss [W] for rated value of the current at AC in hot operating state per pole at AC in hot operating state per pole without load current share typical of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value at ac auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of main circuit rated value of main circuit rated value of main circuit rated value of auxiliary circuit rated value at AC maximum permissible voltage for sel isolation between coll and main contacts according to EN 60947-1 shock resistance at rectangular impulse at AC at DC at DC shock resistance with sine pulse at AC at DC of contactor with sine pulse of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum output during operation Yes 0.9 W 4.3 W 690 V 4.3 W 690 V 4.3 W 690 V 400 V 6 kV 400 V 6 kV 400 V 6 kV 400 V 7.5g / 5 ms, 4,7g / 10 ms 7.5g / 5 ms, 4,7g / 10 ms 10g / 5 ms, 7,5g / 10 m	product extension	
power loss [W] for rated value of the current at AC in hot operating state at AC in hot operating state per pole without load current share typical of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value for waximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse at AC at AC at AC 11,8g / 5 ms, 7,5g / 10 ms shock resistance with sine pulse at AC at AC 11,8g / 5 ms, 7,4g / 10 ms at DC shock resistance with sine pulse at AC at DC 15g / 5 ms, 10g / 10 ms mechanical service life (switching cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Quuring substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation -25 +60 °C	 function module for communication 	No
at AC in hot operating state at AC in hot operating state per pole without load current share typical insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of at AC of 5,5g/5 ms, 4,7g/10 ms of back resistance with sine pulse of at AC of 5,5g/5 ms, 4,7g/10 ms of contactor with sine pulse of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient temperature of during operation 0.9 W 0.3 W 0.9 W 0.3 W 0.90 V	auxiliary switch	Yes
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of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value aximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse of at AC of contactor with sine pulse of the Contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary sw	 without load current share typical 	4.3 W
of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of the Contacts according to EN 60947-1 shock resistance at rectangular impulse of at AC of y5 ms, 4,7g / 10 ms shock resistance with sine pulse of the Contactor with sine pulse of the Contactor typical of the contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical	insulation voltage	
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maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC • at DC shock resistance with sine pulse • at AC • at DC at AC • at DC shock resistance with sine pulse • at AC • at DC at AC • at DC 11,8g / 5 ms, 7,4g / 10 ms 15g / 5 ms, 10g / 10 ms mechanical service life (switching cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation 400 V 400 V 400 V 400 V 7,5g / 5 ms, 4,7g / 10 ms 10,8g / 5 ms, 7,4g / 10 ms 10,000 000 10,000 000 10,000 000 10,000 000 10,000 000 10,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,000 000 20,	 of main circuit rated value 	6 kV
shock resistance at rectangular impulse at AC at DC shock resistance with sine pulse at AC at DC shock resistance with sine pulse at AC at DC to at DC shock resistance with sine pulse at AC at DC to be at DC to at AC to at DC to a	of auxiliary circuit rated value	6 kV
 at AC at DC 10g / 5 ms, 4,7g / 10 ms shock resistance with sine pulse at AC at DC 11,8g / 5 ms, 7,4g / 10 ms at DC 15g / 5 ms, 10g / 10 ms mechanical service life (switching cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation -25 +60 °C 		400 V
• at DC shock resistance with sine pulse • at AC • at DC mechanical service life (switching cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation 10 00 000 10 000 000 10 000 000 10 000 00	shock resistance at rectangular impulse	
shock resistance with sine pulse	• at AC	7,5g / 5 ms, 4,7g / 10 ms
 at AC at DC 15g / 5 ms, 7,4g / 10 ms 15g / 5 ms, 10g / 10 ms mechanical service life (switching cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation 11,8g / 5 ms, 7,4g / 10 ms 15g / 5 ms, 10g / 10 ms 10 000 000 20 00 m 	• at DC	10g / 5 ms, 7,5g / 10 ms
at DC mechanical service life (switching cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation 15g / 5 ms, 10g / 10 ms 10 000 000 5 000 000 10 000 000 10 000 000 10 000 00	shock resistance with sine pulse	
mechanical service life (switching cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation 10 000 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000 10 000	• at AC	11,8g / 5 ms, 7,4g / 10 ms
 of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation 10 000 000 2 000 000 	• at DC	15g / 5 ms, 10g / 10 ms
of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation 5 000 000 10 000 000 10 000 000 10 000 00	mechanical service life (switching cycles)	
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reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation -25 +60 °C		5 000 000
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation 10/01/2009 2 000 m -25 +60 °C		10 000 000
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -25 +60 °C	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum ambient temperature ● during operation -25 +60 °C	Substance Prohibitance (Date)	10/01/2009
ambient temperature ● during operation -25 +60 °C	Ambient conditions	
• during operation -25 +60 °C	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
● during storage -55 +80 °C	 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 maximum	95 %
lain 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 value at AC-1 	40 A
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	40 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	35 A
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
 at AC-4 at 400 V rated value 	12.5 A
at AC-5a up to 690 V rated value	35.2 A
at AC-5b up to 400 V rated value	9.9 A
• at AC-6a	
up to 230 V for current peak value n=20 rated value	11.4 A
 up to 400 V for current peak value n=20 rated value 	11.4 A
 up to 500 V for current peak value n=20 rated value 	11.3 A
— up to 690 V for current peak value n=20 rated value	9 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	7.6 A
 up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated 	7.6 A
value — up to 690 V for current peak value n=30 rated — up to 690 V for current peak value n=30 rated	7.6 A
value minimum cross-section in main circuit at maximum AC-1	10 mm ²
operational current for approx. 200000 operating	
cycles at AC-4	
at 400 V rated value	5.5 A
at 690 V rated value	5.5 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— 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	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A

— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
	1.4 A
• at 1 current path at DC-3 at DC-5	20.4
— at 24 V rated value	20 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 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	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 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	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	
	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles	
at AC-4	2.6 MW
• at 400 V rated value	2.6 kW
at 690 V rated value	4.6 kW
operating apparent power at AC-6a	45174
up to 230 V for current peak value n=20 rated value	4.5 kVA
• up to 400 V for current peak value n=20 rated value	7.8 kVA
 up to 500 V for current peak value n=20 rated value 	9.8 kVA
up to 690 V for current peak value n=20 rated value	10.7 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	3 kVA
• up to 400 V for current peak value n=30 rated value	5.2 kVA
• up to 500 V for current peak value n=30 rated value	6.5 kVA
• up to 690 V for current peak value n=30 rated value	9 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	210 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 5 s switching at zero current maximum	210 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	162 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum	103 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	88 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	30 A, 300 minimum oraco-accitor acc. to AC-1 fateu value
at AC	1 500 1/h
• at DC	1 500 1/h
♦ at DO	1 000 1/11

operating frequency	
• at AC-1 maximum	1 000 1/h
at AC-2 maximum	1 000 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	200 280 V
at 60 Hz rated value	200 280 V
control supply voltage at DC	
rated value	200 280 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.7
• full-scale value	1.1
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.7 1.1
• at 60 Hz	0.7 1.1
design of the surge suppressor	with varistor
inrush current peak	25 A
duration of inrush current peak	30 µs
locked-rotor current mean value	0.1 A
locked-rotor current peak	0.13 A
duration of locked-rotor current	180 ms
holding current mean value	17 mA
apparent pick-up power of magnet coil at AC	
● at 50 Hz	12.7 VA
• at 60 Hz	14.7 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.98
• at 60 Hz	0.98
apparent holding power of magnet coil at AC	0.01/4
• at 50 Hz	3.9 VA
• at 60 Hz	4.3 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.51
• at 60 Hz	0.56
closing power of magnet coil at DC	14.3 W
holding power of magnet coil at DC	1.9 W
closing delay	
• at AC	50 80 ms
• at DC	50 75 ms
opening delay	00 50
• at AC	30 50 ms
• at DC	30 50 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
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

### 600 V rated value	1000 // / / /	4.0
* at 24 V rated value * at 60 V rated value * 6 A * at 10 V rated value * 6 A * at 11 0 V rated value * 9 A * 3 A * at 122 V rated value * 2 A * at 122 V rated value * 1 A * at 122 V rated value * 1 A * at 122 V rated value * 1 A * at 122 V rated value * 1 A * at 122 V rated value * 2 A * at 122 V rated value * 2 A * at 124 V rated value * 2 A * at 124 V rated value * 2 A * at 124 V rated value * 2 A * at 124 V rated value * 2 A * at 125 V rated value * 10 A * at 122 V rated value * 10 A * at 122 V rated value * 10 A * at 122 V rated value * 10 A * at 122 V rated value * 10 A * at 122 V rated value * 10 A * at 122 V rated value * 10 A * at 124 V rated value * 10 A * at 125 V rated value * 10 A * at 125 V rated value * 10 A * at 125 V rated value * at 120 V rated value * at 140 V rated value * at 100 V rated value * at 200 V rated value *	at 690 V rated value	1 A
e. at 48 V rated value	•	40.4
e at 60 V reted value e at 110 V reted value 3 A 2 A 2 110 V reted value 1 A 2 A 2 A 2 A 2 A 3 A 3 A 3 A 4 A 2 2 B V reted value 1 A 4 A V reted value 2 A 2 A 3 A 4 8 V rated value 2 A 4 4 8 V rated value 2 A 4 110 V rated value 2 A 4 110 V rated value 2 A 6 110 V rated value 1 A 6 A 8 V rated value 2 A 6 110 V rated value 1 A 6 A 18 V rated value 9 A 6 A 18 V rated value 1 A 6 A 18 V rated value 9 A 6 A 18 V rated value 9 A 6 A 19 V rated value 9 A 6 A 19 V rated value 9 A 6 A 19 V rated value 9 A 6 A 10 V rated value 9 A A 6 A 10 V rated value 9 A A 6 A 10 V rated value 9 A A 6 A 10 V rated value 9 A A 6 A 10 V rated value 1 A 1		
e at 110 V rated value		
• at 125 V rated value		
1 A 15	 at 110 V rated value 	
e at 600 V rated value	at 125 V rated value	2 A
Operational current at DC-13	at 220 V rated value	1 A
• at 24 V rated value	at 600 V rated value	0.15 A
• at 48 V rated value	operational current at DC-13	
• at 160 V rated value	 at 24 V rated value 	10 A
• at 110 V rated value • at 125 V rated value • at 220 V rated value • at 200 V rated value • at 800 V rated value • at 100 V rated value • at 100 V rated value • for 3-phase AC motor • at 110 V 20 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 800 V rated value • for 3-phase AC motor • at 800 V rated value • for 3-phase AC motor • at 800 V rated value • for 3-phase AC motor • at 800 V rated value • for 3-phase AC motor • at 800 V rated value • for 3-phase AC motor • at 800 V rated value • for 3-phase AC motor • at 800 V rated value • for 3-phase AC motor • at 800 V rated value • for 3-phase AC motor • at 800 V rated value • for 3-phase AC motor • at 800 V rated value • for 3-phase AC motor • at 800 V rated value • for 9-phase AC motor • at 800 V rated value • for 9-phase AC motor • for short-circuit protection of the main circuit • with type of castignment 2 required • for short-circuit protection of the main circuit • with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • side-by-side mounting • side-by-side mounting • for short-circuit protection of the auxiliary switch required •	 at 48 V rated value 	2 A
• at 125 V rated value • at 220 V rated value • at 220 V rated value • at 230 V rated value • at 260 V rated value • at 270 V rated value	 at 60 V rated value 	2 A
• at 220 V rated value	 at 110 V rated value 	1 A
• at 600 V rated value	 at 125 V rated value 	0.9 A
contact reliability of auxiliary contacts UL/CSA ratings Tull-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 300 V rated value • for single-phase AC motor • at 110/120 V rated value • for 3-phase AC motor • at 220/230 V rated value • for 3-phase AC motor • at 220/230 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • ontact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit • with type of coordination 1 required • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch solution mounting/ dimensions mounting position fastening method • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • ownwards • for grounded parts • forwards • forwards • forwards • for grounded parts • forwards • forwards • for grounded parts • forwards • for grounded parts • forwards • forwards • forwards • forwards • formards • forwards • formards • forwards	 at 220 V rated value 	0.3 A
Tull-ad current (FLA) for 3-phase AC motor	at 600 V rated value	0.1 A
Tull-oad current (FLA) for 3-phase AC motor	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Tull-load current (FLA) for 3-phase AC motor at 480 V rated value		
• at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 2575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 675/600 V rated value — at 675/600 V rated value — at 75/600 V rated value — at 75/600 V rated value — at 75/600 V rated value — with 1/pp of coordination of the main circuit — with 1/pp of coordination 1 required — with 1/pp of assignment 2 required — with 1/pp of assignment 2 required — with 1/pp of assignment 2 required — for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position #-180° rotation possible on vertical mounting surface; can be titled forward and backward by #-22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 * side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • ownerds 10 mm - downwards 10 mm - forwards		
• at 600 V rated value 11 A		11 A
violed mechanical performance [hp] for single-phase AC motor		
• for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 9		
- at 110/120 V rated value		
■ at 230 V rated value ● for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value Or short-circuit protection ### design of the fuse link ● for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required ● for short-circuit protection of the auxiliary switch required ● for short-circuit protection of the auxiliary switch required ### design of the fuse link		1 hn
of or 3-phase AC motor — at 200/208 V rated value		
at 220/208 V rated value		2 110
- at 220/230 V rated value 7.5 hp 7.5 hp 7.5 hp 10 hp 7.5 hp 10 hp	•	2 hn
- at 460/480 V rated value - at 575/600 V rated value - at 575/600 V rated value - at 575/600 V rated value - contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position #/-180* rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting rail according to DIN EN 60715 • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • owith side-by-side mounting • forwards - upwards - downwards 10 mm • at the side • for grounded parts - forwards - upwards - upwards - upwards - upwards - of momands - at the side - downwards - at the side - dow		·
- at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required • for short-circuit protection of the main circuit — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting rail according to DIN EN 60715 • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • orwards — downwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — of owards		
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link		
Short-circuit protection design of the fuse link		
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position **T-180** rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface fastening method • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • forwards — upwards — at the side • for grounded parts — otwards — upwards — upwards — upwards — upwards — other in the side • for mounting • forwards — upwards — upwards — other in the side • for mounting • forwards — upwards — other in the side • formands — upwards — upwards — other in the side • formands — upwards — upwards — other in the side • formands — upwards — other in the side • formands — upwards — other in the side • formands — upwards — at the side — downwards — other in the side • formands — other in the side •		A600 / P600
• for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required 9G: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 63A (415V,80kA) • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rall according to DIN EN 60715 • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting — forwards — upwards — at the side — for grounded parts — forwards — upwards — upwards — upwards — upwards — of or grounded parts — upwards — at the side — downwards — the side —		
- with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required of or short-circuit protection of the auxiliary switch required installation/ mounting/ dimensions mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting • side-by-side mounting width depth 102 mm vidth depth 107 mm required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side of orgrounded parts - for grounded parts - for grounded parts - at the side - downwards - at the side - dow		
- with type of assignment 2 required for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)	•	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position #-/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 * side-by-side mounting height		
Installation/ mounting/ dimensions mounting position	, · · · · · · · · · · · · · · · · · · ·	
Installation/ mounting/ dimensions mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 102 mm width 45 mm depth 107 mm required spacing • with side-by-side mounting — forwards 10 mm — upwards 10 mm — downwards 10 mm — at the side 0 mm — for grounded parts 10 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm	·	gG: 10 A (500 V, 1 kA)
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes height 102 mm width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — at the side — downwards 10 mm 10 mm	·	
forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting Yes height 102 mm width 45 mm depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — the side • for grounded parts — forwards — upwards — at the side — downwards — to mm		
according to DIN EN 60715 Yes height 102 mm width 45 mm depth 107 mm required spacing with side-by-side mounting — forwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — the side — downwards — the side — downwards — upwards — the side — downwards — upwards — the side — downwards — at the side — downwards — at the side — downwards — at the side — downwards — the side —	mounting position	
height width depth 102 mm 45 mm depth 107 mm required spacing with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — upwards — at the side of mm at the side — downwards — upwards — upwards — lo mm for grounded parts — forwards — upwards — upwards — upwards — upwards — at the side — downwards 10 mm	fastening method	
height width 45 mm depth 107 mm required spacing with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — upwards — the side of mm at the side — downwards — upwards — upwards — to mm for grounded parts — forwards — upwards — upwards — upwards — upwards — upwards — at the side — downwards 10 mm 10 mm	• side-by-side mounting	
width 45 mm depth 107 mm required spacing 0 mm with side-by-side mounting 10 mm - forwards 10 mm - upwards 10 mm - at the side 0 mm o for grounded parts 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm		102 mm
depth 107 mm required spacing		45 mm
 with side-by-side mounting forwards upwards downwards at the side for grounded parts forwards upwards forwards at the side mm upwards at the side at the side downwards mm at the side downwards mm mm	depth	107 mm
 with side-by-side mounting forwards upwards downwards at the side for grounded parts forwards upwards forwards at the side mm upwards at the side at the side downwards mm at the side downwards mm mm	required spacing	
 — forwards — upwards — downwards — at the side • for grounded parts — forwards — wwards — upwards — at the side — at the side — downwards 10 mm — at the side — downwards 10 mm 		
 — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — at the side — downwards 10 mm 6 mm — downwards 10 mm 		10 mm
 — downwards — at the side • for grounded parts — forwards — upwards — at the side — at the side — downwards 10 mm 6 mm — downwards 10 mm 		
 — at the side ● for grounded parts — forwards — upwards — at the side — downwards 10 mm 6 mm — downwards 10 mm 	•	
 for grounded parts forwards upwards at the side downwards 10 mm 6 mm downwards 10 mm 		
 forwards upwards at the side downwards 10 mm 6 mm 10 mm 		V IIIII
 upwards at the side downwards 10 mm 6 mm 10 mm 	- · · · · · · · · · · · · · · · · · · ·	10 mm
- at the side 6 mm - downwards 10 mm		
— downwards 10 mm	•	
• for live parts		10 mm
	• for live parts	

- upwards - downwards - at the side 6 mm Connectorist Torminats Por an incurrent circuit spring-loaded terminals spring-load	— forwards	40
Connections? Torminals type of electrical connection of or auxiliary and control circuit of main contacts of or main contacts of or main contacts of one solid or shanded of main contacts of main contacts of main contacts of main contacts osolid of main contacts osolid of main contacts osolid of main contacts osolid of main contacts of main contacts of main contacts of main contacts of auxiliary contacts		
- at the side Connections Terminals Yeps of leactrical connection • for main current circuit • at contactor for auxiliary contacts • of magnet coil Ype of connectable conductor cross-sections • for main contacts - solid or standed - finely stranded without core end processing - in all yet standed without core end processing • finely stranded without core end processing • for auxiliary contacts • solid or stranded 2x (1 10 mm² 1 10 mm² 1 10 mm² 1 6 mm² 1 6 mm² 2 1.5 mm² 0.5 2.5 mm² 2x (0.5 2.5 mm² 2x (0.5 2.5 mm²) 2x (0.5 2.	•	75
ype of electrical connection • for main contract circuit • for auxillary and control circuit • for fauxillary and control circuit • for fauxillary and control circuit • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — snelly stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • at law famely and the core end processing • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for survising contacts — solid or stranded • for connectable conductor cross-sections • for fauxillary contacts — solid or stranded • finely stranded without core end processing • for main contacts • for main contacts • for main contacts • for auxillary contacts Solid or stranded • for auxillary contacts Solid or stranded • for without core end processing • finely stranded without core end processing • for without or stranded • for without or stranded • for without or stranded • for without or strand		
type of electrical connection		Offiliti
• for main current circuit • for auxillary and control circuit • at contactor for auxillary and control circuit • at contactor for auxillary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid • stranded — finely stranded without core end processing • at AWG cables for main contacts — solid • stranded • finely stranded with core end processing • at AWG cables for main contacts — solid • stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely stranded without		
• for auxillary and control circuit • at contactor for auxillary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — solid or stranded — finely stranded without core end processing — solid or stranded — solid or stranded without core end processing — solid or stranded • finely stranded without core end processing • fine		anring leaded terminals
at contactor for auxillary contacts of magnet coll type of connectable conductor cross-sections of for main contacts — solid — solid or stranded — finely stranded with core end processing — at AWG cables for main contacts osolid — solid or stranded — finely stranded without core end processing at AWG cables for main contacts osolid — solid — stranded — finely stranded with core end processing at AWG cables for main contacts — solid — stranded — finely stranded with core end processing — finely stranded with core end processing — finely stranded without core end processing — finely stranded with core end processing — finely stranded without core end processing — at AWG cables for auxillary contacts AWG number as coded connectable conductor cross section — for main contacts — of or auxillary contacts AWG number as coded connectable conductor cross section — in mirror contact according to IEC 60947-4-1 — with high demand rate according to SN 31920 — with high demand rate according to SN 31920 — with high demand rate according to SN 31920 Ti value for proof test interval or service life according to IEC 61508 — with low demand rate according to IEC 60529 suitability for use — safety-related switching OFF certificates/ approvale		, ,
• of magnet coll type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing — innely stranded without core end processing — at AWG cables for main contacts • solid • stranded • finely stranded without core end processing — at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded • finely stranded without core end processing • for auxiliary contacts — solid or stranded • finely stranded without core end processing • for auxiliary contacts — solid or stranded • finely stranded without core end processing • for auxiliary contacts — solid or stranded • finely stranded without core end processing • for auxiliary contacts — solid or stranded • finely stranded without core end processing • for auxiliary contacts — solid or stranded • finely stranded without core end processing • for auxiliary contacts — solid or stranded • finely stranded without core end processing • for auxiliary contacts — solid or stranded • finely stranded without core end processing • for auxiliary contacts — solid or stranded 2x (0.5 2.5 mm² 2x (0.5 2.5 mm² 2x (0.5 2.5 mm² 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm² 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm² 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²	•	
type of connectable conductor cross-sections ● for main contacts — solid — solid or stranded — finely stranded without core end processing — finely stranded without core end processing at AWG cables for main contacts ● solid ■ stranded ■ finely stranded without core end processing at AWG cables for main contacts ■ solid ■ stranded ■ finely stranded with core end processing □ finely stranded without c	-	
• for main contacts — solid — solid or stranded — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWO cables for main contacts • solid • stranded • stranded • stranded • stranded • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • solid or stranded • finely stranded without core end processing • solid or stranded • finely stranded without core end processing • solid or stranded • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts • solid or stranded — finely stranded without core end processing — finely stranded without co		Spring-type terminals
		2v (1 10 mm²)
finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing finely stranded with core end processing stranded stranded stranded stranded with core end processing finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing solid or stranded solid or stranded solid or stranded with core end processing solid or stranded with core end processing solid or stranded with core end processing solid or stranded without core end processing solid or stranded solid or strander		
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connectable conductor cross-section for main contacts solid stranded if niely stranded with core end processing if niely stranded with core end processing if niely stranded without core end processing connectable conductor cross-section for auxiliary contacts solid or stranded if niely stranded with core end processing if niely stranded with core end processing if niely stranded with core end processing if niely stranded without core end processing if niely stranded without core end processing if or auxiliary contacts solid or stranded if niely stranded with core end processing if or auxiliary contacts solid or stranded if niely stranded with core end processing if or auxiliary contacts solid or stranded if niely stranded with core end processing if or auxiliary contacts solid or stranded if niely stranded without core end processing if or auxiliary contacts solid or stranded if niely stranded without core end processing if or auxiliary contacts solid or stranded if niely stranded without core end processing if or auxiliary contacts solid or stranded if niely stranded without core end processing if or auxiliary contacts solid or stranded if niely stranded without core end processing if or auxiliary contacts solid or stranded if niely stranded without core end processing if or auxiliary contacts solid or stranded if niely stranded without core end processing if or auxiliary contacts solid or stranded if niely stranded with core end processing if or auxiliary contacts solid or stranded if niely stranded with core end processing if or auxiliary contacts solid or stranded if niely stranded with core end processing if or auxiliary contacts solid or stranded if niely stranded with core end processing if or auxiliary contact solid or stranded if niely stranded with core end processing if or auxiliary contact solid or stranded if niely stranded with core end processing if or auxiliary contact solid or stranded if niely stranded with core end processing if or auxiliary contact if niely stranded with core		
contacts • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts • solid or stranded • finely stranded without core end processing • for auxiliary contacts - solid or stranded — finely stranded without core end processing — finely stranded without core end processing — finely stranded without core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5		2x(10 0)
• stranded • finely stranded with core end processing • finely stranded without core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded without core end processing - finely stranded without core end processing - finely stranded without core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 2x (0.5 2.5 mm²) 2x (0.5		
• finely stranded without core end processing connectable conductor cross-section for auxillary contacts • solid or stranded finely stranded with core end processing cfinely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts - solid or stranded - finely stranded without core end processing for auxiliary contacts - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - with AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts - for auxiliary contacts 18 8 - for auxiliary contacts 20 14 Safety related data product function - mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 roportion of dangerous failures - with low demand rate according to SN 31920 roy thin low demand rate according to SN 31920 73 % failure rate [FIT] with low demand rate according to IEC 60529 with low demand rate according to IEC 60529 touch protection class IP on the front according to IEC 60529 suitability for use - safety-related switching OFF Yes Certificates/approvals	• solid	1 10 mm²
• finely stranded without core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — finely stranded without core end processing — at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²	stranded	1 10 mm²
connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 suitability for use • safety-related switching OFF Certificates/approvals	 finely stranded with core end processing 	1 6 mm²
contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — finely stranded with core end processing — finely stranded without core end processing — at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 18 8 • for auxiliary contacts 20 14 Safety related data product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with low demand rate according to SN 31920 17 value for proof test interval or service life according to IEC 60529 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 utual by related switching OFF Yes Certificates/approvals	 finely stranded without core end processing 	1 6 mm²
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AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 14 Safety related data product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 100 FIT 11 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 safety-related switching OFF Yes Certificates/ approvals		
section • for main contacts • for auxiliary contacts 20 14 Safety related data product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use • safety-related switching OFF Yes Certificates/ approvals		ZX (20 14)
of roauxiliary contacts 20 14 Safety related data product function	_	
Safety related data product function	for main contacts	18 8
product function	for auxiliary contacts	20 14
product function	Safety related data	
mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use safety-related switching OFF Yes Certificates/ approvals		
B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use safety-related switching OFF Yes with low demand rate according to SN 31920 40 % 100 FIT 20 y IP20 finger-safe, for vertical contact from the front Yes Certificates/ approvals	•	Yes
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with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use • safety-related switching OFF Yes Certificates/ approvals	proportion of dangerous failures	
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T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use • safety-related switching OFF Yes Certificates/ approvals	with high demand rate according to SN 31920	73 %
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use • safety-related switching OFF Yes Certificates/ approvals		100 FIT
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front suitability for use • safety-related switching OFF Yes Certificates/ approvals		20 y
suitability for use • safety-related switching OFF Certificates/ approvals Yes		IP20
• safety-related switching OFF Yes Certificates/ approvals		finger-safe, for vertical contact from the front
Certificates/ approvals	-	
		Yes
General Product Approval	Certificates/ approvals	
General Froduct Approval	General Product Approval	





Confirmation



<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Test Certificates

Marine / Shipping

Miscellaneous











Marine / Shipping

other

Dangerous Good





Confirmation



Confirmation

Transport Information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2024-2NP30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2024-2NP30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-2NP30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2024-2NP30&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-2NP30/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2024-2NP30&objecttype=14&gridview=view1

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