SIEMENS

Data sheet 3RT2038-1SF30



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 83-150 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NC, screw terminal, size: S2, F-PLC-IN

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] 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	1.6 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 coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7.7g / 5 ms, 4.5g / 10 ms
• at DC	7.7g / 5 ms, 4.5g / 10 ms
shock resistance with sine pulse	
• at AC	12g / 5 ms, 7g / 10 ms
• at DC	12g / 5 ms, 7g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	5 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
of the contactor with added auxiliary switch block typical	5 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/29/2021
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C

Institute Inst	during storage	-55 +80 °C
Main activit		
number of Potes for main current circuit 3 number of NO contacts for main current circuit 3 number of NO contacts for main centects 3 0 0 0 0 0 0 0 0 0	relative humidity at 55 °C according to IEC 60068-2-30	95 %
Description of INO contacts for main contacts 3	Main circuit	
Operating voltage	number of poles for main current circuit	3
e at AC-2 rated value maximum 690 V operational current • at AC-1 at 400 V at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value • at AC-3 — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 990 V at ambient temperature 60 °C rated value — at 590 V rated value — at 690 V rated value — up to 230 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 400 V rated value = 30 A 46.7 A 46.7 A 47.7 A 48.7 A	number of NO contacts for main contacts	3
• at AC-2e rated value maximum operational current • at AC-1 at 400 V at ambient temperature 40 °C rated value — up to 680 V at ambient temperature 60 °C rated value — up to 680 V at ambient temperature 60 °C rated value — up to 680 V at ambient temperature 60 °C rated value — at 600 V rated value — up to 200 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for c	operating voltage	
operational current ■ at AC-1 at 400 V at ambient temperature 40 °C rated value ■ at AC-1 — up to 680 V at ambient temperature 80 °C rated value — up to 680 V at ambient temperature 80 °C rated value — up to 680 V at ambient temperature 80 °C rated value — at 500 V rated value — at 600 V rated value — 55 A ■ at AC-2a ■ at AC-3 to 10 °C value value ■ at AC-4 at 400 V rated value ■ at AC-5 but p to 400 V rated value ■ at AC-5 but p to 400 V rated value — up to 400 V for current peak value n=20 rated value — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=30 rated value — up	• at AC-3 rated value maximum	690 V
• at AC-1 at 400 V at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 80 °C rated value — at 690 V rated value — up to 400 V rated value — up to 400 V rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 400 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — u	at AC-3e rated value maximum	690 V
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value — up to 690 V at ambient temperature 60 °C rated value • at AC-3 — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at AC-5a up to 690 V rated value — at AC-5b up to 400 V for current peak value = 20 rated value — up to 500 V for current peak value = 20 rated value — up to 690 V for current peak value = 20 rated value — up to 690 V for current peak value = 20 rated value — up to 690 V for current peak value = 20 rated value — up to 500 V for current peak value = 20 rated value — up to 500 V for current peak value = 20 rated value — up to 500 V for current peak value = 20 rated value — up to 500 V for current peak value = 20 rated value — up to 500 V for current peak value = 20 rated value — up to 500 V for current peak value = 20 rated value — up to 500 V for current peak value = 30 rated value — up to 500 V for current peak value = 30 rated value — up to 500 V for current peak value = 30 rated value — up to 500 V for current peak value = 30 rated value — up to 500 V for current peak value = 30 rated value — up to 500 V for current peak value = 30 rated value — up to 500 V rated value — at 600 V rated	• at AC-1	
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- up to 500 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value • at AC-6a - up to 230 V for current peak value n=30 rated value - up to 400 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 600 V rated value - at 24 V rated value - at 220 V rated value - at 220 V rated value - at 440 V rated value - at 440 V rated value - at 600 V rated value		
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		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 mm² operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value • 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 1 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 55 A — at 24 V rated value 45 A — at 110 V rated value 45 A — at 220 V rated value 5 A — at 220 V rated value 5 A — at 40 V rated value 45 A — at 24 V rated value 5 A — at 440 V rated value 5 A — at 440 V rated value 5 A — at 600 V rated value 1 A — at 600 V rated value 5 A — at 600 V rated value 6 A — at 600 V rated value 6 A — at 600		
minimum cross-section in main circuit at maximum AC-1 rated value 35 mm² operational current for approx. 200000 operating cycles at AC-4	·	
AC-4 • at 400 V rated value • at 690 V rated value • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 460 V rated value — at 440 V rated value — at 440 V rated value — at 450 V rated value — at 600 V rated value — at 600 V rated value — at 22 V rated value — at 22 V rated value — at 24 V rated value — at 60 V rated value — at 60 V rated value — at 60 V rated value — at 440 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 440 V rated value — at 600 V rated value	minimum cross-section in main circuit at maximum AC-1 rated	
• 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 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 45 A — at 110 V rated value 45 A — at 110 V rated value 45 A — at 440 V rated value 45 A — at 20 V rated value 5 A — at 440 V rated value 45 A — at 440 V rated value 5 A — at 450 V rated value 5 A — at 500 V rated value 7 A — at 600 V rated 7 A — at 600		
operational current	• at 400 V rated value	30 A
• 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 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 55 A — at 110 V rated value 45 A — at 110 V rated value 45 A — at 120 V rated value 55 A — at 140 V rated value 15 A — at 160 V rated value 15 A — at 440 V rated value 15 A — at 440 V rated value 15 A — at 460 V rated value 15 A — at 500 V rated value 15 A — a	at 690 V rated value	24 A
- 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 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 55 A - at 60 V rated value 45 A - at 110 V rated value 45 A - at 110 V rated value 55 A - at 440 V rated value 45 A - at 220 V rated value 55 A - at 600 V rated value 10 A - at 600 V rated	operational current	
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- 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 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 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	55 A
- at 220 V rated value - 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 1 A - at 600 V rated value 0.8 A	— at 60 V rated value	23 A
 — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value 	— at 110 V rated value	4.5 A
 at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 45 A at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value with 3 current paths in series at DC-1 	— at 220 V rated value	1 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 1 A — at 600 V rated value 0.8 A • with 3 current paths in series at DC-1	— at 440 V rated value	0.4 A
- 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 1 A - at 600 V rated value 0.8 A • with 3 current paths in series at DC-1	— at 600 V rated value	0.25 A
- at 60 V rated value 45 A - at 110 V rated value 5 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	 with 2 current paths in series at DC-1 	
- at 110 V rated value 45 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 220 V rated value at 440 V rated value at 600 V rated value with 3 current paths in series at DC-1 	— at 60 V rated value	
 — at 440 V rated value — at 600 V rated value • with 3 current paths in series at DC-1 	— at 110 V rated value	
— at 600 V rated value 0.8 A • with 3 current paths in series at DC-1		
• with 3 current paths in series at DC-1		
		0.8 A
— at 24 V rated value 55 A	-	
	— at 24 V rated value	55 A

— at 60 V rated value	55 A
— at 60 V rated value — at 110 V rated value	55 A
— at 110 V rated value — at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 440 V rated value — at 600 V rated value	1.4 A
at 1 current path at DC-3 at DC-5	1.7 A
— 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 400 V rated value	37 kW
— at 500 V rated value	37 kW
— at 690 V rated value	45 kW
• at AC-3e	00.1111
— at 230 V rated value	22 kW
— at 400 V rated value — at 500 V rated value	37 kW
— at 690 V rated value	37 kW 45 kW
operating power for approx. 200000 operating cycles at AC-	70 (4)
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 400 V for current peak value n=20 rated value 	48 400 VA
 up to 500 V for current peak value n=20 rated value 	60 600 VA
up to 690 V for current peak value n=20 rated value	69 300 VA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	18 600 VA
up to 400 V for current peak value n=30 rated value	32 300 VA
up to 500 V for current peak value n=30 rated value	40 400 VA 55 800 VA
up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to	33 000 VA
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	1 000 1/h
• at DC	1 000 1/h
operating frequency	

	• at AC-1 maximum	
* al AC-4 maximum **To violage of the control supply voltage at AC **To violage of AC **To v	• at AC-2 maximum	350 1/h
150 1th	• at AC-3 maximum	500 1/h
Control circuit/ Control Control supply voltage at AC a it 50 Hz rated value 83150 V a it 50 Hz rated value 83150 V control supply voltage at AC 83150 V control supply voltage at DC 83150 V a risted value 83150 V Operating range factor control supply voltage rated value of magnet col at AC 0.8 a fill scale value 0.8 operating range factor control supply voltage rated value of magnet col at AC 0.81.1 a it 50 Hz 0.81.1 consumed current at PLC-control input according to IEC 0.81.1 consumed current at PLC-control input according to IEC 0.81 design of the surge suppressor III mA further current at PLC-control input according to IEC 0.81 design of the surge suppressor III mA further current peak 0.9.4 locked-rotor current peak 0.94 <tr< td=""><td>• at AC-3e maximum</td><td>500 1/h</td></tr<>	• at AC-3e maximum	500 1/h
type of voltage of the control supply voltage at AC ACIDO at 60 b Fz rated value 83 150 V a cornor supply voltage at DC 83 150 V a raded value 83 150 V operating range factor control supply voltage rated value of nagnet coil at DC 83 150 V a radial value 0.8 a radial value 0.8 a radial value 0.8 a radial value 0.8 a radio D tz 0.8 1.1 value of D tz C-control input according to IEC 60947-1 Type 1 consumed current at PLC-control input according to IEC 60947-1 Type 1 consumed current at PLC-Control input according to IEC 60947-1 Type 1 consumed current peak 24 V design of the surge suppressor with vastor inrush current peak 25 A duration of focked-rotor current mean value 0.94 A locked-rotor current mean value 0.94 A radio D tz<	• at AC-4 maximum	150 1/h
Section Supply voltage at AC	Control circuit/ Control	
* at 60 Hz rated value	type of voltage of the control supply voltage	AC/DC
	control supply voltage at AC	
Same	• at 50 Hz rated value	83 150 V
e raled value operating range factor control supply voltage rated value of magnet coil at DC e Initial value operating range factor control supply voltage rated value of magnet coil at AC e 150 Hz a 150 Hz operating range factor control supply voltage rated value of magnet coil at AC e 150 Hz a 160 Hz ype of PLC-control input according to IEC 80947-1 type of PLC-control input according to IEC 80947-1 type of PLC-control input according to IEC 80947-1 voltage at PLC-control input according to IEC 90947-1 design of the surge suppressor working at PLC-control input according to IEC 90-947-1 design of the surge suppressor with variation inrush current peak 0 8.	at 60 Hz rated value	83 150 V
Departaling range factor control supply voltage rated value of magnet coil at DC	control supply voltage at DC	
magnet coil at DC • initial value • full-scale value • at 50 Hz • at 60 Hz • at 60 Hz • ot 50 Hz • ot 50 Hz • at 60 Hz • operating range factor control input according to IEC 69947-1 maximum voltage at PLC-control input rated value operating range factor of the voltage at PLC-control input design of the surge suppressor with variator inrush current peak 25 A duration of inrush current peak locked-rotor current peak 0.8 A duration of locked-rotor current 230 ms holding current mean value locked-rotor current peak 40 VA • at 60 Hz • at 60 Hz • at maximum rated control supply voltage at DC • at maximum rated control supply voltage at DC • at maximum rated control supply voltage at DC • at 60 Hz	rated value	83 150 V
• full-scale value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz		
operating range factor control supply voltage rated value of magnet coil at AC	initial value	0.8
magnet coil at AC	full-scale value	1.1
• at 80 Hz type of PLC-control input according to IEC 60947-1 Type 1		
type of PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 maximum voltage at PLC-control input rated value operating range factor of the voltage at PLC-control input design of the surge suppressor with varistor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current mean value outsion of locked-rotor current apparent pick-up power of magnet coil at AC at 50 Hz at maximum rated control supply voltage at DC at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz apparent holding power of magnet coil at AC — at 50 Hz at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz apparent holding power of magnet coil at AC — at 50 Hz at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz apparent holding power of magnet coil at AC — at 50 Hz at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at maximum rated control supply voltage at AC — at 50 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz at 60	● at 50 Hz	0.8 1.1
consumed current at PLC-control input according to IEC 11 mA 60947-1 maximum 24 V operating range factor of the voltage at PLC-control input 0.8 1.1 design of the surge suppressor with varistor Inrush current peak 25 A duration of inrush current peak 10 μs locked-rotor current mean value 0.34 A locked-rotor current peak 0.8 A duration of locked-rotor current 230 ms holding current mean value 0.015 A alotic pick-up power of magnet coil at AC 40 VA al 50 Hz 40 VA al 60 Hz 40 VA apparent holding power 2 VA at minimum rated control supply voltage at DC 2 VA at maximum rated control supply voltage at AC 2 VA - at 50 Hz 2 VA - at 60	• at 60 Hz	0.8 1.1
60947-1 maximum 24 V voltage at PLC-control input rated value 24 V operating range factor of the voltage at PLC-control input 0.8 1.1 design of the surge suppressor with varistor inrush current peak 25 A duration of inrush current peak 0.34 A locked-rotor current mean value 0.34 A locked-rotor current peak 0.8 A duration of locked-rotor current 20 ms holding current mean value 0.015 A apparent pick-up power of magnet coil at AC 40 VA a 150 Hz 40 VA a paparent pick-up power of magnet coil at AC 2 VA a 150 Hz 40 VA a paparent holding power 2 VA a t maximum rated control supply voltage at DC 2 VA a t maximum rated control supply voltage at AC 2 VA at 50 Hz 2 VA a to Ha b Hz 2 VA a to Ha b Hz 2 VA a to D Hz 2 VA <	type of PLC-control input according to IEC 60947-1	Type 1
operating range factor of the voltage at PLC-control input 0.8 1.1 design of the surge surpressor with varistor inrush current peak 25 A duration of inrush current peak 10 µs locked-rotor current mean value 0.34 A coked-rotor current peak 0.8 A duration of locked-rotor current 230 ms holding current mean value 0.015 A apparent pick-up power of magnet coil at AC 40 VA at 80 Hz 40 VA apparent holding power 2 VA at maximum rated control supply voltage at DC 2 VA at a minimum rated control supply voltage at AC 2 VA — at 50 Hz 2 VA • at 50 Hz 2 VA • at 50 Hz 0.95 • at 50 Hz 0.95 • at 50 Hz 0.95 • at 60 Hz 0.95 • at 60 Hz 0.95 <t< td=""><td></td><td>11 mA</td></t<>		11 mA
design of the surge suppressor with varistor Inrush current peak 25 A duration of inrush current peak 10 µs locked-rotor current mean value 0.34 A locked-rotor current peak 0.8 A duration of locked-rotor current 230 ms holding current mean value 0.015 A apparent pick-up power of magnet coil at AC at 50 Hz	voltage at PLC-control input rated value	24 V
Inrush current peak 25 A	operating range factor of the voltage at PLC-control input	0.8 1.1
duration of inrush current peak 10 µs locked-rotor current mean value 0.34 A duration of locked-rotor current duration of locked-rotor current duration of locked-rotor current duration of locked-rotor current apparent pick-up power of magnet coil at AC at 50 Hz	design of the surge suppressor	with varistor
locked-rotor current peak 0.34 A locked-rotor current peak 0.8 A duration of locked-rotor current 230 ms holding current mean value 0.015 A apparent pick-up power of magnet coil at AC at 50 Hz 40 VA apparent holding power at minimum rated control supply voltage at DC 2 VA apparent holding power at maximum rated control supply voltage at AC at 50 Hz 2 VA apparent holding power at maximum rated control supply voltage at AC at 50 Hz 2 VA at 60 Hz 2 VA at a maximum rated control supply voltage at AC at 50 Hz 2 VA at 60 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz 2 VA at 60 Hz 2 VA at 60 Hz 2 VA at 60 Hz 2 VA ot 50 Hz 2 VA ot 60 Hz 3 VA ot 60 Hz 4 VA ot 60 Hz 5 VA ot 60 Hz 6 VA ot 60	inrush current peak	25 A
Dicked-rotor current peak 0.8 A	duration of inrush current peak	10 µs
Doubling current mean value	locked-rotor current mean value	0.34 A
Apparent pick-up power of magnet coil at AC at 150 Hz at 60 Hz apparent holding power at minimum rated control supply voltage at DC at minimum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz 2 VA at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz 2 VA apparent holding power of magnet coil at AC at 150 Hz at 60 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz at 60 Hz but 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC at AC at AC at AC at DC a	locked-rotor current peak	0.8 A
apparent pick-up power of magnet coil at AC at 150 Hz at 60 Hz apparent holding power at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz linductive power factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC at AC at AC at AC at DC at AC at AC at DC at AC at A	duration of locked-rotor current	230 ms
at 50 Hz at 60 Hz at 60 Hz apparent holding power at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at AC —at 50 Hz —at 60 Hz 2 VA at maximum rated control supply voltage at AC —at 50 Hz at maximum rated control supply voltage at AC —at 50 Hz 2 VA at maximum rated control supply voltage at AC —at 50 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz 2 VA at 60 Hz 2 VA inductive power factor with the holding power of the coil at 50 Hz at 60 Hz 0.95 closing power of magnet coil at DC 1.6 W closing delay at AC at AC 35 110 ms opening delay at AC at AC 30 55 ms at DC recovery time after power failure typical 2.1 s	-	0.015 A
apparent holding power at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz 2 VA at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 2 VA apparent holding power of magnet coil at AC at 60 Hz 2 VA at 60 Hz 2 VA at 60 Hz 2 VA cat 60 Hz 0.95 at 60 Hz 0.95 closing power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC at AC at AC at AC at AC at AC at AC at DC recovery time after power failure typical 2 VA 2 VA 2 VA 2 VA 2 VA 2 VA 30 55 ms at DC recovery time after power failure typical		
at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at AC at 50 Hz at 60 Hz at 50 Hz at 60 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz at 60 Hz but fool Hz closing power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC at AC at		
at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz 2 VA at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC at AC at DC recovery time after power failure typical		40 VA
at maximum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz — at 60 Hz 2 VA at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz at 50 Hz bilding power of the holding power of the coil at 50 Hz bilding power of magnet coil at DC closing power of magnet coil at DC holding power of magnet coil at DC at AC		
apparent holding power		
• at minimum rated control supply voltage at AC	,	2 VA
- at 50 Hz - at 60 Hz 2 VA ● at maximum rated control supply voltage at AC - at 50 Hz - at 60 Hz 2 VA apparent holding power of magnet coil at AC ● at 50 Hz ● at 60 Hz 2 VA at 60 Hz 2 VA • at 60 Hz 2 VA inductive power factor with the holding power of the coil ● at 50 Hz 0.95 closing power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC closing delay ● at AC ● at DC opening delay ● at AC ● at DC opening delay ● at AC ● at DC at AC ● at DC at AC ● at DC opening delay ● at AC ● at DC at AC ● at DC at AC ● at DC opening delay ● at AC ● at DC		
- at 60 Hz • at maximum rated control supply voltage at AC - at 50 Hz - at 60 Hz 2 VA apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz 2 VA inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power of magnet coil at DC • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC toloing delay • at AC • at DC recovery time after power failure typical 2 VA 2 VA 2 VA 4		
at maximum rated control supply voltage at AC - at 50 Hz - at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 50 Hz at 60 Hz 2 VA at 60 Hz 2 VA inductive power factor with the holding power of the coil at 50 Hz at 60 Hz 0.95 at 60 Hz 0.95 closing power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC closing delay at AC a		
- at 50 Hz 2 VA apparent holding power of magnet coil at AC • at 50 Hz 2 VA • at 60 Hz 2 VA • at 60 Hz 2 VA inductive power factor with the holding power of the coil • at 50 Hz 0.95 • at 60 Hz 0.95 closing power of magnet coil at DC 40 W holding power of magnet coil at DC 1.6 W closing delay • at AC 35 110 ms • at DC 35 110 ms opening delay • at AC 30 55 ms • at DC recovery time after power failure typical 2.1 s		Z VA
— at 60 Hz 2 VA apparent holding power of magnet coil at AC 2 VA • at 50 Hz 2 VA • at 60 Hz 0.95 • at 50 Hz 0.95 • at 60 Hz 0.95 closing power of magnet coil at DC 40 W holding power of magnet coil at DC 1.6 W closing delay at AC 35 110 ms • at DC 35 110 ms opening delay at AC 30 55 ms • at DC 30 55 ms • at DC 30 55 ms • at DC 2.1 s		21/4
apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz Closing power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC opening delay • at AC • at DC opening delay • at AC • at DC recovery time after power failure typical		
		Z VN
		2 VA
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC tolosing delay • at AC • at DC opening delay • at AC • at DC at AC • at DC opening delay • at AC • at DC at DC 20		
		L VI
● at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC 1.6 W closing delay ● at AC ● at DC opening delay ● at AC ● at DC at AC ● at DC opening delay ● at AC ● at DC at AC ● at DC 20.95 20.		0.95
closing power of magnet coil at DC 40 W holding power of magnet coil at DC 1.6 W closing delay at AC at DC 35 110 ms opening delay at AC at DC at DC at DC at DC recovery time after power failure typical 2.1 s		
holding power of magnet coil at DC 1.6 W closing delay 35 110 ms ● at DC 35 110 ms opening delay 35 110 ms ● at AC 30 55 ms ● at DC 30 55 ms recovery time after power failure typical 2.1 s		
closing delay 35 110 ms • at AC 35 110 ms • at DC 35 110 ms opening delay 30 55 ms • at DC 30 55 ms recovery time after power failure typical 2.1 s		
 at AC at DC 35 110 ms opening delay at AC at DC at DC 30 55 ms at DC recovery time after power failure typical 2.1 s 		
● at DC 35 110 ms opening delay ● at AC 30 55 ms ● at DC 30 55 ms recovery time after power failure typical 2.1 s		35 110 ms
opening delay ● at AC 30 55 ms ● at DC 30 55 ms recovery time after power failure typical 2.1 s		
● at AC 30 55 ms ● at DC 30 55 ms recovery time after power failure typical 2.1 s		
● at DC 30 55 ms recovery time after power failure typical 2.1 s		30 55 ms
recovery time after power failure typical 2.1 s		
7		
	arcing time	
control version of the switch operating mechanism Fail-safe PLC input (F-PLC-IN)	•	

Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact	
number of NO contacts for auxiliary contacts instantaneous contact	0
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	0.15 A
operational current at DC-13	
• at 24 V rated value	10 A
at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	65 A
at 600 V rated value	62 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	5 hp
— at 230 V rated value	15 hp
• for 3-phase AC motor	
— at 200/208 V rated value	20 hp
— at 220/230 V rated value	25 hp
— at 460/480 V rated value	50 hp
— at 575/600 V rated value	60 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
design of the fuse link • for short-circuit protection of the main circuit	
for short-circuit protection of the main circuit with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required	kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)
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	kA)
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 Installation/ mounting/ dimensions	G: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA) gG: 10 A (500 V, 1 kA)
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	KA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)
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 Installation/ mounting/ dimensions mounting position fastening method	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 DIN rail according to DIN EN 60715
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 Installation/ mounting/ dimensions mounting position	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 DIN rail according to DIN EN 60715 Yes
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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 DIN rail according to DIN EN 60715 Yes 114 mm
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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width	G: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 DIN rail according to DIN EN 60715 Yes 114 mm 55 mm
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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth	G: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 DIN rail according to DIN EN 60715 Yes 114 mm
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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing	G: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 DIN rail according to DIN EN 60715 Yes 114 mm 55 mm
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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	G: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 DIN rail according to DIN EN 60715 Yes 114 mm 55 mm 130 mm
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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	G: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 DIN rail according to DIN EN 60715 Yes 114 mm 55 mm 130 mm
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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	G: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 DIN rail according to DIN EN 60715 Yes 114 mm 55 mm 130 mm

— at the side	0 mm
• for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
• for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
• of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	
solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)
connectable conductor cross-section for main contacts	
finely stranded with core end processing	1 35 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm²
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross	ZX (20 10), ZX (10 11)
section	
• for main contacts	18 1
for main contacts for auxiliary contacts	18 1 20 14
• for main contacts	
for main contacts for auxiliary contacts	
for main contacts for auxiliary contacts Safety related data	
for main contacts for auxiliary contacts Safety related data product function	20 14
for main contacts for auxiliary contacts Safety related data product function mirror contact according to IEC 60947-4-1	20 14 Yes
for main contacts for auxiliary contacts Safety related data product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1	20 14 Yes No
• for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2	20 14 Yes No Type B
• for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF	Yes No Type B Yes
for main contacts for auxiliary contacts Safety related data product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920	20 14 Yes No Type B Yes 1 000 000
• for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508	20 14 Yes No Type B Yes 1 000 000 2
• for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061	Yes No Type B Yes 1 000 000 2
• for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1	Yes No Type B Yes 1 000 000 2 2 c
for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1	Yes No Type B Yes 1 000 000 2 2 2 2 C
for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1	Yes No Type B Yes 1 000 000 2 2 C 2 0
• for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum	Yes No Type B Yes 1 000 000 2 2 C 2 0
• for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures	Yes No Type B Yes 1 000 000 2 2 C 2 0 28 800 s
• for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920	Yes No Type B Yes 1 000 000 2 2 C 2 0 28 800 s
• for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920	Yes No Type B Yes 1 000 000 2 2 2 0 2 0 28 800 s
for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to EN 62061	Yes No Type B Yes 1 000 000 2 2 2 0 0 28 800 s
for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to EN 62061 failure rate [FIT] with low demand rate according to SN 31920	Yes No Type B Yes 1 000 000 2 2 C 2 0 28 800 s 40 % 73 % 7.7E-8 1/h 100 FIT
• for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to EN 62061 failure rate [FIT] with low demand rate according to SN 31920 Safe failure fraction (SFF)	Yes No Type B Yes 1 000 000 2 2 C 2 0 28 800 s 40 % 73 % 7.7E-8 1/h 100 FIT 96 %
• for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to EN 62061 failure rate [FIT] with low demand rate according to SN 31920 Safe failure fraction (SFF) PFDavg with low demand rate according to IEC 61508	Yes No Type B Yes 1 000 000 2 2 2 C 2 0 28 800 s 40 % 73 % 7.7E-8 1/h 100 FIT 96 % 0.0067
• for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 PFHD with high demand rate according to EN 62061 failure rate [FIT] with low demand rate according to SN 31920 Safe failure fraction (SFF) PFDavg with low demand rate according to IEC 61508 MTBF	Yes No Type B Yes 1 000 000 2 2 2 C 2 0 28 800 s 40 % 73 % 7.7E-8 1/h 100 FIT 96 % 0.0067 52 a
• for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 PFHD with high demand rate according to EN 62061 failure rate [FIT] with low demand rate according to SN 31920 Safe failure fraction (SFF) PFDavg with low demand rate according to IEC 61508 MTBF hardware fault tolerance according to IEC 61508 T1 value for proof test interval or service life according to IEC	Yes No Type B Yes 1 000 000 2 2 2 C 2 0 28 800 s 40 % 73 % 7.7E-8 1/h 100 FIT 96 % 0.0067 52 a 0
• for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to EN 62061 failure rate [FIT] with low demand rate according to SN 31920 Safe failure fraction (SFF) PFDavg with low demand rate according to IEC 61508 MTBF hardware fault tolerance according to IEC 61508 T1 value for proof test interval or service life according to IEC 61508	Yes No Type B Yes 1 000 000 2 2 2 C C 2 0 28 800 s 40 % 73 % 7.7E-8 1/h 100 FIT 96 % 0.0067 52 a 0 20 a
• for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to EN 62061 failure rate [FIT] with low demand rate according to SN 31920 Safe failure fraction (SFF) PFDavg with low demand rate according to IEC 61508 MTBF hardware fault tolerance according to IEC 61508 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529	Yes No Type B Yes 1 000 000 2 2 2 0 2 0 28 800 s 40 % 73 % 7.7E-8 1/h 100 FIT 96 % 0.0067 52 a 0 20 a IP20



Confirmation





<u>KC</u>



	Functional
EMC	Safety/Safety of Ma- chinery

Declaration of Conformity

Test Certificates

Marine / Shipping



Type Examination Certificate





Type Test Certificates/Test Report

other



Marine / Shipping









<u>Confirmation</u> <u>Vibr</u>

Vibration and Shock

Railway

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT2038-1SF30

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2038-1SF30}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-1SF30

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

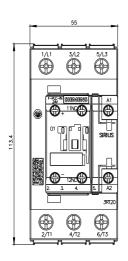
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2038-1SF30&lang=en

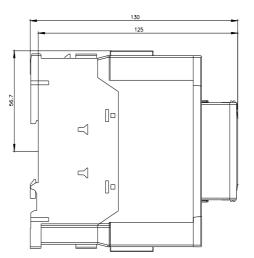
Characteristic: Tripping characteristics, I2t, Let-through current

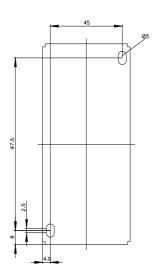
https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-1SF30/char

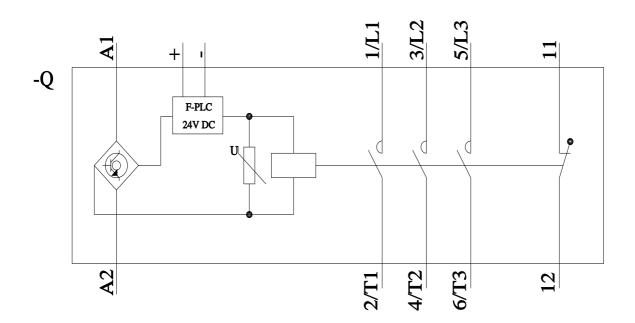
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2038-1SF30&objecttype=14&gridview=view1









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