SIEMENS

Data sheet 3RT2035-3SP30



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 175-280 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded 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 	6.6 W
 at AC in hot operating state per pole 	2.2 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

Interest	during storage	-55 +80 °C
maximum		10 %
number of PoC contacts for main contacts 3 3 3 3 3 3 3 3 3		95 %
Department of NO contacts for main contacts	Main circuit	
Speratory voltage	number of poles for main current circuit	3
* at AC-3e rated value maximum * at AC-3e rated value maximum * at AC-3e rated value maximum * at AC-1 at 400 V at ambient temperature 40 "C rated value * at AC-1	number of NO contacts for main contacts	3
• at AC-2 er ated value maximum operational current • at AC-1 at 400 V at ambient temperature 40 °C rated value — up to 660 V at ambient temperature 40 °C rated value — up to 660 V at ambient temperature 60 °C rated value — up to 660 V at ambient temperature 60 °C rated value — at 600 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 600 V rated value — up to 200 V for current peak value n=20 rated value — up to 400 V for current peak value n=20 rated value — up to 600 V for current peak value n=20 rated value — up to 600 V for current peak value n=20 rated value — up to 600 V for current peak value n=20 rated value — up to 600 V for current peak value n=20 rated value — up to 600 V for current peak value n=20 rated value — up to 600 V for current peak value n=20 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — at 600 V rated value — a	operating voltage	
Section Current	• 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 80 °C rated value —up to 690 V at ambient temperature 80 °C rated value —up to 690 V at ambient temperature 80 °C rated value at AC-3 —at 400 V rated value at 690 V rated value at AC-3a at AC-5a up to 690 V frated value at AC-5a up to 690 V frated value at AC-6a up to 690 V fro current peak value n=20 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 —at 100 V rated value —at 100 V rated value —at 200 V rated value —at 200 V rated value —at 600 V rated va	• at AC-3e rated value maximum	690 V
• at AC-1 —up to 590 V at ambient temperature 40 °C rated value 69 A —up to 690 V at ambient temperature 60 °C rated value 55 A • at AC-3 —at 400 V rated value 41 A —at 500 V rated value 41 A —at 690 V rated value 41 A • at AC-3e —at 400 V rated value 41 A —at 500 V rated value 41 A —at 690 V rated value 41 A —at 690 V rated value 41 A • at AC-3e 41 A —at 690 V rated value 42 A • at AC-4 at 400 V rated value 35 A • at AC-5e up to 690 V rated value 52 8 A • at AC-5e up to 400 V roted value 32 A • at AC-5e up to 400 V for current peak value n=20 rated value 36 5 A —up to 400 V for current peak value n=20 rated value 36 5 A —up to 500 V for current peak value n=20 rated value 24 A • at AC-6a —up to 500 V for current peak value n=30 rated value 24 A • at AC-6a —up to 500 V for current peak value n=30 rated value 24 A • at AC-4 •at 400 V rated value 24 A <t< td=""><td>operational current</td><td></td></t<>	operational current	
		60 A
value — up to 690 V at ambient temperature 60 °C rated value • at AC-3 — at 400 V rated value — at 690 V rated value • at 690 V rated value • at 690 V rated value — at 690 V rated value — at 690 V rated value — at 600 V rated value • at AC-5a up to 690 V rated value • at AC-5a up to 690 V rated value • at AC-5a 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 — at 140 V rated value — at 600 V rated value — at 140 V rated value	• at AC-1	
value	value	
	value	55 A
at 500 V rated value at 690 V rated value at 675 bu pt 0 400 V rated value 20 rated value at 675 bu pt 0 400 V rated value 20 rated value		
■ at 400 V rated value ■ at 500 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-5a up to 690 V rated value ■ at AC-5a ■ at AC-5a ■ cat		
		24 A
- at 500 V rated value		44.
at AC-4 at 400 V rated value at AC-5a up to 690 V rated value at AC-5a up to 690 V rated value at AC-5a up to 400 V rated value at AC-6a aup to 230 V for current peak value n=20 rated value aup to 500 V for current peak value n=20 rated value aup to 500 V for current peak value n=20 rated value aup to 500 V for current peak value n=20 rated value aup to 500 V for current peak value n=20 rated value aup to 500 V for current peak value n=30 rated value aup to 400 V for current peak value n=30 rated value aup to 500 V for current peak value n=30 rated value aup to 500 V for current peak value n=30 rated value aup to 500 V for current peak value n=30 rated value aup to 500 V for current peak value n=30 rated value aup to 690 V for current peak value n=30 rated value aup to 690 V for current peak value n=30 rated value aup to 690 V for current peak value n=30 rated value authous current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at 110 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 440 V rated value at 220 V rated value at 440 V rated value		
at AC-4 at 400 V rated value at AC-5a up to 690 V rated value at AC-5a at AC-5a up to 690 V rated value at AC-6a — 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 690 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — 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 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — at 690 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value — at 24 V rated value — at 600 V rated value — at 600 V rated value — at 400 V rated value — at 600 V rated value		
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at AC-5b up to 400 V rated value at AC-6a — up to 230 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=20 rated value — up to 500 V for current peak value n=20 rated value — up to 230 V for current peak value n=30 rated value — up to 230 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 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 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 1 current path at DC-1 — at 24 V rated value — at 60 V rated value		
• at AC-6a — 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 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 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 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 600 V rated value — at 60 V rated value — at 600 V r		
- 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 690 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 230 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 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 220 V rated value - at 600 V rated value - at		33.2 A
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 690 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value 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 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value at 600 V rated value at 600 V rated value at 600 V rated value at 200 V rated value at 2		
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• 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 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at 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 220 V rated value • with 2 current paths in series at DC-1 • at 24 V rated value • with 2 varted value — at 200 V rated value • at 60 V rated value • with 2 varted value • at 60 V rated value • with 2 varted value • at 60 V rated value • with 2 varted value • at 60 V rated value • at 60 V rated value • with 2 varted value • with 2 varted value • at 60 V rated value • at 60 V rated value • with 2 varted value • with 2 varted value • at 60 V rated value • at 60 V rated value • at 60 V rated value • with 3 current paths in series at DC-1		
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 590 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at 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 26 V rated value at 60 V rated value at 10 V rated value at 20 V rated value at 440 V rated value at 220 V rated value at 24 V rated value at 25 A • with 2 current paths in series at DC-1 at 24 V rated value at 20 V rated value at 440 V rated value at 440 V rated value at 600 V rated value		24 A
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 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value value 16 mm²		24.2.4
— up to 690 V for current peak value n=30 rated value 24 A minimum cross-section in main circuit at maximum AC-1 rated value 16 mm² operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 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 600 V rated value — at 24 V rated value — at 60 V rated value — at 60 V rated value — at 24 V rated value — at 24 V rated value — at 27 V rated value — at 60 V rated value — at 60 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated	·	
minimum cross-section in main circuit at maximum AC-1 rated value 16 mm² operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value • at 690 V rated value 18.5 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 55 A — at 60 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 440 V rated value 5 A — at 600 V rated value 1 A — at 600 V rated value 1 A • with 3 current paths in series at DC-1 0.8 A		
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 1 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 440 V rated value 0.25 A • with 2 current paths in series at DC-1 — at 24 V rated value 45 A — at 10 V rated value 55 A • with 2 current paths in series at DC-1 — at 24 V rated value 55 A • at 60 V rated value 55 A — at 60 V rated value 55 A — at 60 V rated value 55 A — at 110 V rated value 45 A — at 220 V rated value 45 A — at 220 V rated value 45 A — at 220 V rated value 45 A — at 440 V rated value 95 A — at 440 V rated value 96 A — at 440 V rated value 97 A — at 600 V rated value 98 A		
	value	10 mm
• at 690 V rated value operational current • 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 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 600 V		
operational current	• at 400 V rated value	22 A
• at 1 current path at DC-1 — at 24 V rated value 55 A — at 60 V rated value 4.5 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 — 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 55 A — at 240 V rated value 45 A — at 210 V rated value 5 A — at 220 V rated value 5 A — at 260 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	at 690 V rated value	18.5 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 15 A - at 440 V rated value 55 A - at 600 V rated value 10 A - at 600 V rated	operational current	
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 220 V rated value 55 A at 440 V rated value 1 A at 600 V rated value 5 A at 600 V rated value 1 A at 600 V rated value 0.8 A	• at 1 current path at DC-1	
- 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 55 A - at 440 V rated value 1 A - at 600 V rated value 5 A - at 600 V rated value 1 A	— at 24 V rated value	55 A
 — at 220 V rated value — 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 600 V rated value — at 5 A — at 600 V rated value 	— 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 • with 3 current paths in series at DC-1 	— 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 110 V rated value - 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	
 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 600 V rated value with 3 current paths in series at DC-1 	— at 440 V rated value	0.4 A
 — 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 — with 3 current paths in series at DC-1 		0.25 A
 — 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 • with 3 current paths in series at DC-1 	· · · · · · · · · · · · · · · · · · ·	
 — at 110 V rated value — 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 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 • with 3 current paths in series at DC-1 	— at 220 V rated value	5 A
• with 3 current paths in series at DC-1	— at 440 V rated value	
	— at 600 V rated value	0.8 A
— at 24 V rated value 55 A	 with 3 current paths in series at DC-1 	
	— at 24 V rated value	55 A

at CO V rated value	EE A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1A
— 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 setted value.	EE A
— 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 roted value.	55 A
— at 24 V rated value	55 A
— at 60 V rated value	55 A 55 A
— at 110 V rated value	
— at 220 V rated value — at 440 V rated value	25 A 0.6 A
— at 600 V rated value	0.35 A
operating power ■ at AC-2 at 400 V rated value	18.5 kW
• at AC-3	IO.S KVV
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
• at AC-3e	ZZ NVV
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	LL NVV
4	
• at 400 V rated value	11.6 kW
at 690 V rated value	16.8 kW
operating apparent power at AC-6a	
• up to 400 V for current peak value n=20 rated value	25 200 VA
• up to 500 V for current peak value n=20 rated value	31 600 VA
• up to 690 V for current peak value n=20 rated value	28 600 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	9 600 VA
• up to 400 V for current peak value n=30 rated value	16 800 VA
• up to 500 V for current peak value n=30 rated value	21 000 VA
• up to 690 V for current peak value n=30 rated value	28 600 VA
short-time with stand current in cold operating state up to 40 $^{\circ}\text{C}$	
 limited to 1 s switching at zero current maximum 	843 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	596 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	400 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	241 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	196 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-2 maximum at AC-3 maximum at AC-3e maximum at AC-3e maximum at AC-4 maximum at AC-4 maximum 300 1/h 		
# 34 A.G.3 maximum	• at AC-1 maximum	1 000 1/h
a st AC-3c maximum 1000 s h 300 s h 30		
* at AC-4 maximum Spee of voitage at AC Ac Common Spee of voitage of the control supply voitage at AC Ac Spee of voitage at AC Ac Spee of voitage at AC Ac Spee of voitage of voitage at AC Ac Spee of voitage of voitage at AC Ac Spee of voitage at AC Ac Spee of voitage of voitage of voitage of voitage of voitage at AC Ac Spee of voitage of voitage of voitage of voitag		
Spee of voltage of the control supply voltage at AC		
Specific Notage of the control supply voltage at AC		300 1/h
2	Control circuit/ Control	
* at 50 Hz rated value * at 60 Hz rated value * rate value * rated value * voltage at PLC-control input according to IEC 80947-1 * rated value * voltage at PLC-control input according to IEC 80947-1 * rated value * voltage at PLC-control input according to IEC 80947-1 * rated value * voltage at PLC-control input according to IEC 80947-1 * rated value * voltage at PLC-control input according to IEC 80947-1 * rated value * voltage at PLC-control input according to IEC 80947-1 * rated value * voltage at PLC-control input according to IEC 80947-1 * rated value * voltage at PLC-control input according to IEC 80947-1 * rated value * voltage at PLC-control input according to IEC 80947-1 * rated value	type of voltage of the control supply voltage	AC/DC
	control supply voltage at AC	
175	at 50 Hz rated value	175 280 V
operating range factor control supply voltage rated value of signet cold it DC • Initial value • Initial	at 60 Hz rated value	175 280 V
Sportaling range factor control supply voltage rated value of magnet coil at DC	control supply voltage at DC	
magnet coli at DC	rated value	175 280 V
• full-scale value 1.1		
operating range factor control supply voltage rated value of magnet coil at AC 0.8 1.1 * al 60 Hz 0.8 1.1 * by po of PLC-control input according to IEC 60947-1 Type 1 consumed current at PLC-control input according to IEC 60947-1 11 mA 69947-1 maximum 24 V operating range factor of the voltage at PLC-control input design of the surge suppressor with variator locking of the surge suppressor with variator inrush current peak 43 A duration of Inrush current peak 0.18 A locked-rotor current mean value 0.18 A locked-rotor current mean value 0.01 A locked-rotor current mean value 0.01 A locked-rotor current peak 0.42 A locked-rotor current peak 0.42 A locked-rotor current peak 0.94 A locked-rotor current mean value 0.01 A apparent bloiding power 40 VA * al 50 Hz 40 VA * al 50 Hz 2 VA * al maximum rated control supply voltage at DC 2 VA * at maximum rated control supply voltage at AC 2 VA * at 00	initial value	0.8
mispace Coil at AC 0.81.1 * at 80 Hz 0.81.1 type of PLC-control Input according to IEC 69947-1 Type 1 consumed current at PLC-control Input according to IEC 69947-1 maximum 24 V coperating range factor of the voltage at PLC-control input design of the surge suppressor with validor inrush current peak 43 A duration of inrush current peak 43 A duration of inrush current peak 0.42 A duration of locked-rotor current 230 ms holding current mean value 0.01 A paparent pick-tup power of magnet coil at AC 40 VA * at 50 Hz 40 VA * at 80 Hz 2 VA * at maximum rated control supply voltage at DC 2 VA * at 80 Hz 2 VA * at 80 Hz<	full-scale value	1.1
• al 60 Hz Type of PLC-control input according to IEC 60947-1 Type 1		
type of PLC-control input according to IEC 60947-1 Type 1 consumed current at PLC-control input according to IEC 60947-1 maximum 11 mA voltage at PLC-control input rated value 24 V operating range factor of the voltage at PLC-control input 08 1.1 design of the surge suppressor with varistor Inrush current peak 43 A duration of Invish current peak 0.8 1. locked-rotor current mean value 0.18 A locked-rotor current peak 0.42 A duration of locked-rotor current 230 ms holding current mean value 0.01 A apparent pick-up power of magnet coil at AC 40 VA • at 50 Hz 40 VA • at 60 Hz 2 VA • at minimum rated control supply voltage at DC 2 VA • at minimum rated control supply voltage at DC 2 VA • at 60 Hz 0 M2 • at 60 Hz 0 M2	● at 50 Hz	
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60947-1 maximum 24 V voltage at PLC-control input rated value 24 V operating range factor of the voltage at PLC-control input 0.81.1 design of the surge suppressor with variator inrush current peak 10 µs locked-rotor current mean value 0.42 A duration of locked-rotor current 230 ms holding current mean value 0.01 A apparent plck-up power of magnet coil at AC 40 VA • at 50 Hz 40 VA • at 60 Hz 40 VA apparent holding power 2 VA • at maximum rated control supply voltage at DC 2 VA • at maximum rated control supply voltage at AC 2 VA — at 60 Hz 2 VA • at maximum rated control supply voltage at AC 2 VA — at 60 Hz 2 VA • at maximum rated control supply voltage at AC 2 VA — at 60 Hz 2 VA • at 50 Hz 2 VA • at 50 Hz 2 VA • at 50 Hz 2 VA • at 60 Hz 2 VA • at 50 Hz 0.95	type of PLC-control input according to IEC 60947-1	Type 1
voltage at PLC-control input rated value 24 V operating range factor of the voltage at PLC-control input 0.81.1 design of the surge suppressor with varistor inrush current peak 43 A duration of inrush current peak 10 µs locked-rotor current peak 0.42 A duration of locked-rotor current 230 ms holding current mean value 0.01 A apparent plck-up power of magnet coil at AC 4 850 Hz 40 VA at 80 Hz 40 VA 4 80 Hz 40 VA apparent holding power 4 maximum rated control supply voltage at DC 2 VA 4 maximum rated control supply voltage at DC 2 VA at minimum rated control supply voltage at AC 2 VA 2 VA 4 maximum rated control supply voltage at AC 2 VA 4 maximum rated control supply voltage at AC 2 VA 4 maximum rated control supply voltage at AC 2 VA 4 maximum rated control supply voltage at AC 2 VA 4 maximum rated control supply voltage at AC 2 VA 4 maximum rated control supply voltage at AC 4 to Hz 2 VA 4 to Hz 4 VA 4 to Hz 4 VA 4 to Hz 4 VA 4 to Hz		11 mA
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design of the surge suppressor with varistor inrush current peak		
Inrush current peak 43 A duration of inrush current peak 10 µs locked-rotor current mean value 0.18 A locked-rotor current peak 0.42 A duration of locked-rotor current 230 ms holding current mean value 0.01 A apparent pick-up power of magnet coil at AC 48 50 Hz • at 50 Hz 40 VA apparent holding power 4 thinimum rated control supply voltage at DC • at maximum rated control supply voltage at DC 2 VA apparent holding power 4 thinimum rated control supply voltage at AC — at 50 Hz 2 VA — at 60 Hz 2 VA — at 60 Hz 2 VA — at 50 Hz 0.95 — at 60 Hz 0.95 — a		
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Docked-rotor current peak 0.42 A	·	
Duration of locked-rotor current 230 ms Duration of locked-rotor supply coll at AC		
Abolding current mean value Description of magnet coil at AC at 50 Hz	·	
apparent pick-up power of magnet coil at AC at 150 Hz at 60 Hz 40 VA apparent holding power at minimum rated control supply voltage at DC at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz 2 VA apparent holding power at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz 2 VA at 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 apparent holding power of magnet coil at AC at 60 Hz 2 VA apparent holding power of magnet coil at AC at 60 Hz 2 VA apparent holding power of magnet coil at AC at 60 Hz 16 UH at 60 Hz 16 UH at 60 Hz 16 UH bolding power of magnet coil at DC 16 UH holding power of magnet coil at DC 16 UH holding power of magnet coil at DC 16 UH holding power of magnet coil at DC 2 UH at AC at DC 35 110 ms opening delay at AC at DC 30 55 ms at DC at DC 30 55 ms recovery time after power failure typical arcing time 10 20 ms		
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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 • 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 0.95 • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC at AC • at DC recovery time after power failure typical arcing time 2 VA 2 VA 2 VA 2 VA 2 VA 4 0 2 VA 4 0 4 0 0.95 6 0.95		
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• at 50 Hz • at 60 Hz • 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 AC • at AC • at AC • at DC at AC • at DC 1.0 ms opening delay • at AC • at DC • at DC • at DC • at DC 1.0 ms opening delay • at AC • at DC • at DC • at DC 1.0 ms	• at 60 Hz	2 VA
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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 oat DC 30 55 ms oat DC 30 55 ms recovery time after power failure typical 2.1 s arcing time 10 20 ms	● at 50 Hz	0.95
holding power of magnet coil at DC 1.6 W closing delay 35 110 ms ● at DC 35 110 ms opening delay 30 55 ms ● at DC 30 55 ms ● at DC 30 55 ms recovery time after power failure typical 2.1 s arcing time 10 20 ms	• at 60 Hz	0.95
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opening delay ■ at AC ■ at DC ■ at DC	• at AC	35 110 ms
● at AC	• at DC	35 110 ms
● at DC 30 55 ms recovery time after power failure typical 2.1 s arcing time 10 20 ms	opening delay	
recovery time after power failure typical 2.1 s arcing time 10 20 ms	• at AC	30 55 ms
arcing time 10 20 ms	• at DC	30 55 ms
	recovery time after power failure typical	2.1 s
control version of the switch operating mechanism Fail-safe PLC input (F-PLC-IN)	arcing time	10 20 ms
	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	40 A
at 600 V rated value	41 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
• for 3-phase AC motor	
-+ 000/000 \ /	40 h
— at 200/208 V rated value	10 hp
— at 200/208 V rated value— at 220/230 V rated value	15 hp
	·
— at 220/230 V rated value	15 hp
— at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL	15 hp 30 hp
— at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	15 hp 30 hp 40 hp
at 220/230 V rated value at 460/480 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	15 hp 30 hp 40 hp
— at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	15 hp 30 hp 40 hp
- at 220/230 V rated value - at 460/480 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	15 hp 30 hp 40 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
- at 220/230 V rated value - at 460/480 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 - with type of assignment 2 required	15 hp 30 hp 40 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
- at 220/230 V rated value - at 460/480 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 with type of assignment 2 required for short-circuit protection of the auxiliary switch required	15 hp 30 hp 40 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
- at 220/230 V rated value - at 460/480 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 with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	15 hp 30 hp 40 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)
- at 220/230 V rated value - at 460/480 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 with type of assignment 2 required for short-circuit protection of the auxiliary switch required	15 hp 30 hp 40 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
- at 220/230 V rated value - at 460/480 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 with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	15 hp 30 hp 40 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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
- at 220/230 V rated value - at 460/480 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 with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	15 hp 30 hp 40 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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
- at 220/230 V rated value - at 460/480 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 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	15 hp 30 hp 40 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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
- at 220/230 V rated value - at 460/480 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 - 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	15 hp 30 hp 40 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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
- at 220/230 V rated value - at 460/480 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 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	15 hp 30 hp 40 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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
- at 220/230 V rated value - at 460/480 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 - 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	15 hp 30 hp 40 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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
- at 220/230 V rated value - at 460/480 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 - 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	15 hp 30 hp 40 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 220/230 V rated value - at 460/480 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 - 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	15 hp 30 hp 40 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 220/230 V rated value - at 460/480 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 - 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	15 hp 30 hp 40 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 	spring-loaded terminals
 at contactor for auxiliary contacts 	Spring-type terminals
of magnet coil	Spring-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 1.5 mm²
finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²)
— finely stranded with core end processing — finely stranded without core end processing	
	2x (0.5 2.5 mm²)
for AWG cables for auxiliary contacts	2x (0.5 2.5 minr) 2x (20 14)
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section	2x (20 14)
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts	2x (20 14) 18 1
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts Safety related data	2x (20 14) 18 1
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts Safety related data product function	2x (20 14) 18 1 20 14
for 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	2x (20 14) 18 1 20 14 Yes
for 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 positively driven operation according to IEC 60947-5-1	2x (20 14) 18 1 20 14 Yes No
for 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 positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2	2x (20 14) 18 1 20 14 Yes No Type B
for 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 positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF	2x (20 14) 18 1 20 14 Yes No Type B Yes
for 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 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	2x (20 14) 18 1 20 14 Yes No Type B Yes 1 000 000
for 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 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	2x (20 14) 18 1 20 14 Yes No Type B Yes 1 000 000 2
for 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 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	2x (20 14) 18 1 20 14 Yes No Type B Yes 1 000 000 2
for 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 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	2x (20 14) 18 1 20 14 Yes No Type B Yes 1 000 000 2 2 C
for 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 • 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	2x (20 14) 18 1 20 14 Yes No Type B Yes 1 000 000 2 2 2 C 2
for 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 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	2x (20 14) 18 1 20 14 Yes No Type B Yes 1 000 000 2 2 2 C 2 0
for 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 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	2x (20 14) 18 1 20 14 Yes No Type B Yes 1 000 000 2 2 2 C 2
for 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 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	2x (20 14) 18 1 20 14 Yes No Type B Yes 1 000 000 2 2 0 2 0 28 800 s
for 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 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	2x (20 14) 18 1 20 14 Yes No Type B Yes 1 000 000 2 2 C 2 0 28 800 s
for 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 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	2x (20 14) 18 1 20 14 Yes No Type B Yes 1 000 000 2 2 2 0 2 0 28 800 s
for 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 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	2x (20 14) 18 1 20 14 Yes No Type B Yes 1 000 000 2 2 2 0 2 0 28 800 s 40 % 73 % 7.7E-8 1/h
For 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 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	2x (20 14) 18 1 20 14 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
• for 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 • 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)	2x (20 14) 18 1 20 14 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 %
• for 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 • 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	2x (20 14) 18 1 20 14 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 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 • 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	2x (20 14) 18 1 20 14 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 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 • 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	2x (20 14) 18 1 20 14 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 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 • 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	2x (20 14) 18 1 20 14 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 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 • 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	2x (20 14) 18 1 20 14 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

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping



Type Examination Certificate





Type Test Certificates/Test Report



Marine / Shipping









Confirmation

other

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=3RT2035-3SP30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-3SP30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3SP30

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

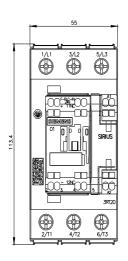
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-3SP30&lang=en

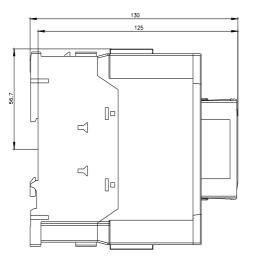
Characteristic: Tripping characteristics, I²t, Let-through current

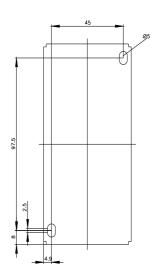
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3SP30/char

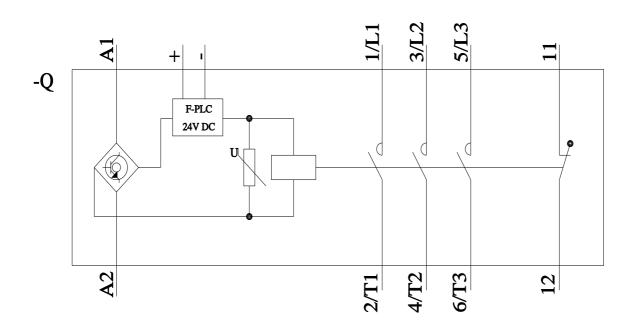
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-3SP30&objecttype=14&gridview=view1









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