## SIEMENS

## Data sheet

## 3RT2045-1NP30



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 175-280 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal

6/3	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S3
product extension	
<ul> <li>function module for communication</li> </ul>	No
<ul> <li>auxiliary switch</li> </ul>	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	15.9 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	5.3 W
<ul> <li>without load current share typical</li> </ul>	3.5 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	10.3g / 5 ms, 6,.g / 10 ms
• at DC	6.7 g / 5 ms, 4g / 10 ms
shock resistance with sine pulse	
• at AC	16.3g / 5 ms, 10.g / 10 ms
• at DC	10.6 g / 5 ms, 6.3 g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
<ul> <li>during storage</li> </ul>	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	1 000 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C</li> </ul>	125 A
rated value ● at AC-1	
	125 A
— up to 690 V at ambient temperature 40 °C rated value	125 A
— up to 690 V at ambient temperature 60 °C	105 A
rated value	
• at AC-3	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
— at 1000 V rated value	30 A
• at AC-3e	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value — at 1000 V rated value	58 A 30 A
at AC-4 at 400 V rated value	66 A
<ul> <li>at AC-4 at 400 V rated value</li> <li>at AC-5a up to 690 V rated value</li> </ul>	110 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	80 A
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	80 A
— up to 400 V for current peak value n=20 rated value	80 A
— up to 500 V for current peak value n=20 rated value	80 A
— up to 690 V for current peak value n=20 rated value	58 A
● at AC-6a	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	54 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	54 A
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	54 A
<ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>	54 A
minimum cross-section in main circuit at maximum AC-1 rated value	50 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	34 A 24 A
at 690 V rated value     operational current	24 A
• at 1 current path at DC-1	
— at 24 V rated value	100 A
— at 60 V rated value	60 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	10 A
— at 440 V rated value	1.8 A
— at 600 V rated value	1 A

<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A
— at 600 V rated value	2.6 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	40 A
— at 60 V rated value	6 A
— at 110 V rated value — at 220 V rated value	2.5 A 1 A
— at 440 V rated value	0.15 A
— at 600 V rated value	0.15 A 0.06 A
with 2 current paths in series at DC-3 at DC-5	0.00 A
- at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	7 A
— at 440 V rated value	0.42 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	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
operating power	
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	37 kW
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	45 kW
— at 690 V rated value — at 1000 V rated value	55 kW
• at AC-3e	37 kW
- at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 kW
— at 1000 V rated value	37 kW
operating power for approx. 200000 operating cycles	
at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	17.9 kW
• at 690 V rated value	21.8 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	31 kVA
• up to 400 V for current peak value n=20 rated value	55 kVA
• up to 500 V for current peak value n=20 rated value	69 kVA
• up to 690 V for current peak value n=20 rated value	69 kVA
<ul> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	21.5 kVA
• up to 400 V for current peak value n=30 rated value	37.4 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	46.7 kVA
<ul> <li>up to 600 V for current peak value n=30 rated value</li> </ul>	64.5 kVA
short-time withstand current in cold operating state	0.00000
up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	1 500 A;
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	1 186 A;
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	851 A; Us
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	538 A; Us
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	423 A; Us

1 500 A; Use minimum cross-section acc. to AC-1 rated value 1 186 A; Use minimum cross-section acc. to AC-1 rated value 851 A; Use minimum cross-section acc. to AC-1 rated value 538 A; Use minimum cross-section acc. to AC-1 rated value 423 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	900 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	175 280 V
• at 60 Hz rated value	175 280 V
control supply voltage at DC	175 000 1/
rated value	175 280 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
<ul> <li>full-scale value</li> </ul>	1.1
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	65 A
duration of inrush current peak	5 µs
locked-rotor current mean value	0.44 A
locked-rotor current peak	1.2 A
duration of locked-rotor current	150 ms
holding current mean value	10 mA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	151 VA
• at 60 Hz	151 VA
apparent holding power of magnet coil at AC	
• at 50 Hz	3.5 VA
• at 60 Hz	3.5 VA
closing power of magnet coil at DC	76 W
holding power of magnet coil at DC	2.7 W
closing delay	
• at AC	50 70 ms
• at DC	50 70 ms
opening delay	29 57 mg
• at AC	38 57 ms
• at DC	38 57 ms 10 20 ms
arcing time	Standard A1 - A2
control version of the switch operating mechanism Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	6 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
<ul> <li>at 125 V rated value</li> </ul>	2 A
• at 220 V rated value	1 A

or show if water is all both and the second secon	<ul> <li>at 600 V rated value</li> </ul>	0.15 A
A 24 Y rated value     A 25 Y rated value     A 24 Y rated value     A 34 Y rated valu		0.13 A
<ul> <li>a 44 8 V rated value</li> <li>a 46 V rated value</li> <li>a 46 V rated value</li> <li>b 4 A</li> <li>a 41 10 V trated value</li> <li>a 4 A</li> <li>a 41 25 V trated value</li> <li>a 4 A</li> <li>a 41 25 V trated value</li> <li>a 4 A</li> <li>a 41 26 V trated value</li> <li>a 4 A</li> <li>a 41 26 V trated value</li> <li>a 4 A</li> <li>a 41 26 V trated value</li> <li>a 4 A</li> <li>a 41 26 V trated value</li> <li>a 4 A</li> <li>b 4 A</li> <li>a 4 A A</li> <li>b 4 A A A A A A A A A A A A A A A A A A</li></ul>	•	10.4
• 46 0V tried value     2 A       • et 135 V rade value     0 9 A       • at 230 V rade value     0 3 A       • at 600 V rade value     0.1 A <b>UDCSA rating</b> 1 faulty switching per 100 million (17 V, 1 mA) <b>UDCSA rating</b> 77 A       • at 600 V rade value     02 A       • at 600 V rade value     02 A       • at 600 V rade value     02 A       • of rangle-phase AC motor		
<ul> <li>a. 11 10 V rated value</li> <li>a. 11 20 V rated value</li> <li>0.3 A</li> <li>a. 200 V rated value</li> <li>0.3 A</li> <li>a. 200 V rated value</li> <li>0.1 A</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UCSA ratings</li> <li>UCSA rated value</li> <li>T A</li> <li>a. at 600 V rated value</li> <li>T A</li> <li>at 600 V rated value</li> <li>T A</li> <li>at 600 V rated value</li> <li>T A</li> <li>at 600 V rated value</li> <li>F A</li> <li>b for single-phase AC motor</li> <li>- at 1101/20 V rated value</li> <li>F A</li> <li>f or 3 raise phase AC motor</li> <li>- at 1101/20 V rated value</li> <li>F B</li> <li>f or 3 raise phase AC motor</li> <li>- at 220/230 V rated value</li> <li>S Pa</li> <li>- at 575600 V rated value</li> <li>- at 575600 V rated value</li> <li>- at pa</li> <li>- at pa</li> <li>- at at a at a set at a set</li></ul>		
<ul> <li>e. 123 V rade value</li> <li>e. 20 A</li> <li>e. 123 V rade value</li> <li>e. 1450 V rade value</li> <li>0.1 A</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>ULCEAN ratios</li> <li>TAIL-04 current (FLA) for 3-phase AC motor</li> <li>et al 40 V rade value</li> <li>62 A</li> <li>yieldod mechanical performance (hp)</li> <li>ef or single-phase AC motor</li> <li></li></ul>		
• 42 20 Yratel value     0.3 Å       • eff 80 Yratel value     0.1 Å       context reliability of auxiliary contacts     1 faulty switching per 100 million (17 V, 1 mA)       ULCESA ratings     T/ A       • eff 400 Yratel value     77 Å       • eff 400 Yratel value     62 Å       • eff or 2 phase AC motor     -		
• a1 600 V ratid value     0.1 Å       Contact reliability of auxiliary contacts     1 faulty switching per 100 million (17 V, 1 mA)       UCCSA ratings     1       FMI-dad current (FLA) for 3-phase AC motor     • at 400 V ratid value       • at 400 V ratid value     02 Å       Violded mechanical performance (hp)     • for single-phase AC motor       • - at 1200 V ratid value     7.5 hp       • - at 2007/08 V ratid value     25 hp       • at 400 V ratid value     30 hp       • at 2007/08 V ratid value     30 hp       • at 575/000 V ratid value     30 hp       • at 575/000 V ratid value     30 hp       • of short-circuit protection of the main circuit     - with type of assignment 2 required       • for short-circuit protection of the auxiliary switch     gG: 10 A (500 V, 100 kA), akt: 160 A (690 V, 100 kA), BS88: 200 A       • for short-circuit protection of the auxiliary switch     gG (10 A (500 V, 10 kA), akt: 160 A (690 V, 100 kA), BS88: 200 A       • for short-circuit protection of the auxiliary switch     gG (10 A (500 V, 10 kA), akt: 160 A (690 V, 100 kA), BS88: 125 A		
context reliability of auxiliary contacts         1 faulys writching per 100 million (17 V. 1 mA)           UUCSA ratings         TA           i 480 V rated value         77 A           i 480 V rated value         82 A           yiolded mechanical performance [tp]		
UUCSA rating:         full-add current (FLA) for 3-phase AC motor         • at 800 V rated value       62 A         • et 800 V rated value       62 A         • for single-phase AC motor       -         - mat 101/102 V rated value       7.5 hp         - mat 200 z rated value       15 hp         • for 3-phase AC motor       -         - mat 20020 V rated value       25 hp         - mat 200220 V rated value       26 hp         - mat 20020 V rated value       26 hp         - mat 20020 V rated value       60 hp         - mat 505600 V rated value       60 hp         - mat 505600 V rated value       60 hp         - mat 505600 V rated value       60 hp         - with hype of coordination 1 frequired       g6: 250 A (600 V, 100 kA), aM: 160 A (600 V, 100 kA), BS88: 200 A         - with hype of coordination 1 frequired       g6: 250 A (600 V, 100 kA), aM: 60A (600 V, 100 kA), BS88: 125A         - with hype of ossignment 2 required       g6: 150 A (500 V, 100 kA), aM: 60A (600 V, 100 kA), BS88: 125A         (15V, 80 kA)       (15V, 80 kA)         fastening method       screw-was and snap-on mounting surface; can be filled         for short-circult protection of the auxiliary surface       20 mm         - with side-by-side mounting       Yes         height		
full-odd current (FLA) for 3-phase AC motor       77 A         • at 800 V rated value       77 A         • at 800 V rated value       62 A         yielded mechanical performance [tp]       65 angle-phase AC motor         - at 110/120 V rated value       75 hp         - at 200208 V rated value       25 hp         - at 200208 V rated value       26 hp         - at 200208 V rated value       26 hp         - at 300208 V rated value       60 hp         - at 400480 V rated value       60 hp         - at 575600 V rated value       60 hp         - or shot-circuit protection of the main circuit       (45 V. 80 kh)         - with type of assignment 2 required       (45 V. 80 kh)         - with type of assignment 2 required       (45 V. 80 kh)         required	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
• at 480 V raide value       77 A         • at 800 V raide value       62 A         • for single-phase AC motor       7.5 hp         - at 120 V raide value       7.5 hp         - at 230 V raide value       15 hp         • for 3 hpses AC motor       30 hp         - at 230 V raide value       25 hp         - at 2002020 V raide value       30 hp         - at 2002020 V raide value       60 hp         - at 460480 V raide value       60 hp         contract rating of auxilary contacts according to UL       A600 / P600         Short-circuit protection of the main circut       gC 250 A (690 V, 100 KA), aM: 160 A (690 V, 100 KA), BS8: 200 A (415 V, 80 KA)         - with hype of constants       gC 160 A (690 V, 100 KA), aM: 160 A (690 V, 100 KA), BS8: 200 A (415 V, 80 KA)         - with hype of constants       gC 160 A (690 V, 100 KA), aM: 60 A (690 V, 100 KA), BS8: 125A (415 V, 80 KA)         - with interpretion of the auxiliary switch required       gC 160 A (690 V, 100 KA), BS8: 125A (415 V, 80 KA)         • for short-circuit protection of the auxiliary switch required       scade-by-side mounting urface: can be illied forwarde         height       Yes       hold main         witch de by-side mounting       Yes         height       Yes       main         required       Comma       main	UL/CSA ratings	
<ul> <li>e at 600 V reter value</li> <li>6C a single-phase AC motor</li> <li>- at 110/120 V rated value</li> <li>7.5 hp</li> <li>- at 220/230 V rated value</li> <li>15 hp</li> <li>- for 3-phase AC motor</li> <li>- at 220/230 V rated value</li> <li>30 hp</li> <li>- at 220/230 V rated value</li> <li>30 hp</li> <li>- at 220/230 V rated value</li> <li>30 hp</li> <li>- at 475/600 V rated value</li> <li>60 hp</li> <li>- at 675/600 V rated value</li> <li>60 hp</li> <li>- at 75/600 V rated value</li> <li>60 hp</li> <li>- at 675/600 V rated value</li> <li>60 hp</li> <li>- at 675/600 V rated value</li> <li>96: 10 A (690 V, 100 kA), all: 160 A (690 V, 100 kA), BS88: 200 A</li> <li>10 A (500 V, 10 kA), all: 80A (690 V, 100 kA), BS88: 125A</li> <li>10 A (500 V, 1 kA)</li> <li>96: 10 A (500 V, 1 kA)</li> <li>97: 16 A (500 V, 100 A), all: according to DIN EN</li> <li>60/715</li> <li>90: at he side</li> <li>90: at he side</li> <li>90: at he side</li> <li>90: at he side</li> <li>90:</li></ul>	full-load current (FLA) for 3-phase AC motor	
yielded machanical performance (hp) <ul> <li></li></ul>	at 480 V rated value	77 A
<ul> <li>for single-phase AC motor         <ul> <li>- at 101/20 V rated value</li> <li>- at 230 V rated value</li> <li>- at 220/238 V rated value</li> <li>- at 275/5000 V rated value</li> <li>- at 675/5000 V rated value</li> <li>- at 75/5000 V rated value</li> <li>- with spe of coordination 1 required</li> <li>- at 76/500 V rated value</li> <li>- at 76/500 V rated value value</li> <li>- at 76/500 V rated value value value</li> <li>- at 76/500 V rated value value value</li> <li>- at 76/500 V rated value value value value value value value value val</li></ul></li></ul>	<ul> <li>at 600 V rated value</li> </ul>	62 A
<ul> <li>for single-phase AC motor         <ul> <li>- at 101/20 V rated value</li> <li>- at 230 V rated value</li> <li>- at 220/238 V rated value</li> <li>- at 275/5000 V rated value</li> <li>- at 675/5000 V rated value</li> <li>- at 75/5000 V rated value</li> <li>- with spe of coordination 1 required</li> <li>- at 76/500 V rated value</li> <li>- at 76/500 V rated value value</li> <li>- at 76/500 V rated value value value</li> <li>- at 76/500 V rated value value value</li> <li>- at 76/500 V rated value value value value value value value value val</li></ul></li></ul>	vielded mechanical performance [hp]	
- ait 101/120 V rated value 7.5 hp - at 200 V rated value 15 hp - at 2002/200 V rated value 25 hp - at 2002/200 V rated value 30 hp - at 460/480 V rated value 60 hp - at 460/480 V rated value 60 hp contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection of the main circuit 60 hp - of or short-circuit protection of the main circuit 95: 250 A (680 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) - with type of coordination 1 required (415 V, 80 kA) - with type of assignment 2 required 95: 160 A (690 V, 100 kA), aM: 80A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) - with type of assignment 2 required 95: 160 A (690 V, 100 kA), aM: 80A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) - with type of assignment 2 required 95: 160 A (690 V, 100 kA), BS88: 125A (415 V, 80 kA) - with type of assignment 2 required 16: 160 A (690 V, 100 kA), BS88: 125A (415 V, 80 kA) - with type of assignment 2 required 10: 160 A (690 V, 100 kA), BS88: 125A (415 V, 80 kA) - with type of assignment 2 required 10: 160 A (690 V, 100 kA), BS88: 125A (415 V, 80 kA) - with type of assignment 2 required 10: 160 A (690 V, 100 kA), BS88: 125A (415 V, 80 kA) - with type of assignment 2 required 10: 10 A (500 V, 1 kA) required assignment 2 required 10: 10 A (500 V, 1 kA) required 10: 10 A (500 V, 1 kA) - at the side 10: 00 mm - downwards 10: 00		
- at 230 V rated value 15 hp • for 3-phase AC motor 25 hp - at 220/280 V rated value 25 hp - at 220/280 V rated value 30 hp - at 40/480 V rated value 60 hp - at 575/680 V rated value 60 hp - at 575/680 V rated value 700 P600 Short-circuit protection of the main circuit 95: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA), aM: 160 A (690 V, 100 kA), BS88 A (69		7.5 hp
• for 3-phase AC motor		
- at 200/200 V rated value 26 hp - at 220/230 V rated value 30 hp - at 420/400 V rated value 60 hp - at 575/600 V rated value 757/600 V rated rated 757/600 V rated 757		
		25 hn
contact rating of auxiliary contacts according to UL     A600 / P600       Short-circuit protection     design of the fuse link       • for short-circuit protection of the main circuit     gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)       - with type of assignment 2 required     gG: 160A (690V, 100 kA), aM: 80A (690V, 100 kA), BS88: 125A (415 V, 80 kA)       • for short-circuit protection of the auxiliary switch required     gG: 10 A (500 V, 1 KA)       mounting position     +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +-22.5° on vertical mounting surface sare wand snap-on mounting onto 35 mm DIN rail according to DIN EN 60715       • side-by-side mounting     Yes       height     140 mm       width     70 mm       depth     152 mm       required spacing     -       • with side-by-side mounting     20 mm       - forwards     20 mm       - downwards     10 mm       - at the side     0 mm       - downwards     10 mm       - at the side     10 mm       - downwards     10 mm       - downwards     10 mm       - at the side     10 mm       - downwards     10 mm       - at the side     10 mm       - ownwards     10 mm       - at the side     10 mm       - ownwards     10 mm		
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         +/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         • side-by-side mounting       Yes         height       140 mm         with side-by-side mounting       Yes         • or shord-circuit protection of the auxiliary switch       20 mm         • side-by-side mounting       Yes         • side-by-side mounting       Yes         • side-by-side mounting       Yes         • downards       10 mm         - downards       10 mm         - downards       10 mm         - forwards       20 mm         - upwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - at the side       10 mm         - downwards		
design of the fuse link <ul> <li>for short-circuit protection of the main circuit</li> <li>- with type of coordination 1 required</li> <li>- with type of assignment 2 required</li> <li>gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)</li> <li>- with type of assignment 2 required</li> <li>gG: 160 A (690 V, 100 kA), aM: 80A (690 V, 100 kA), BS88: 125A (415 V, 80 kA)</li> <li>gG: 160 A (690 V, 100 kA), aM: 80A (690 V, 100 kA), BS88: 125A (415 V, 80 kA)</li> <li>gG: 160 A (690 V, 100 kA), aM: 80A (690 V, 100 kA), BS88: 125A (415 V, 80 kA)</li> <li>gG: 160 A (690 V, 100 kA), aM: 80A (690 V, 100 kA), BS88: 125A (415 V, 80 kA)</li> <li>gG: 160 A (690 V, 100 kA), aM: 80A (690 V, 100 kA), BS88: 125A (415 V, 80 kA)</li> <li>gG: 160 A (690 V, 100 kA), aM: 80A (690 V, 100 kA), BS88: 125A (415 V, 80 kA)</li> <li>gG: 160 A (690 V, 100 kA), aM: 80A (690 V, 100 kA), BS88: 125A (415 V, 80 kA)</li> <li>gG: 160 A (690 V, 100 kA), aM: 80A (690 V, 100 kA), BS88: 125A (415 V, 80 kA)</li> <li>gG: 160 A (690 V, 100 kA), aM: 80A (690 V, 100 kA), BS88: 125A (415 V, 80 kA)</li> <li>gG: 160 A (690 V, 100 kA), aM: 80A (690 V, 100 kA), BS88: 125A (415 V, 80 kA)</li> <li>gG: 160 A (690 V, 100 kA), aM: 80A (690 V, 100 kA), BS88: 125A (415 V, 80 kA)</li> <li>gG: 160 A (690 V, 100 kA), aM: 80A (690 V, 100 kA), BS88: 125A (415 V, 80 kA)</li> <li>gG: 160 A (690 V, 100 kA), aM: 80A (690 V, 100 kA), aM: 80A</li></ul>		A0007 P000
	Short-circuit protection	
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)       with type of assignment 2 required     gG: 160A (690V, 100kA), aM: 80A (690V, 100kA), BS88: 125A (415 V, 80 kA)       • for short-circuit protection of the auxiliary switch required     gG: 10 A (500 V, 1 kA)       Installation/ mounting/ dimensions     +/180° rotation possible on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward and backward by +/-22.5° on vertical mounting surface; can be filled forward	design of the fuse link	
- with type of assignment 2 required     gG: 160A (690V, 100kA), aM: 80A (690V, 100kA), BS88: 125A (415V, 20kA)       • for short-circuit protection of the auxiliary switch required     gG: 10 A (500 V, 1 kA)       Installation/ mounting/ dimensions     +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface can be tilted forward and backward by +/- 22.5° on vertical mounting surface can be tilted forward and backward by +/- 22.5° on vertical mounting surface can be tilted forward and backward by +/- 22.5° on vertical mounting surface can be tilted forward and backward by +/- 22.5° on vertical mounting surface can be tilted forward and backward by +/- 22.5° on vertical mounting surface can be tilted forward and backward by +/- 22.5° on vertical mounting surface can be tilted forward and backward by +/- 22.5° on vertical mounting surface can be tilted forward and backward by +/- 22.5° on vertical mounting surface can be tilted forward and backward by +/- 22.5° on vertical mounting surface can be tilted forward and backward by +/- 22.5° on vertical mounting surface can be tilted forward and backward by +/- 22.5° on vertical mounting surface can be tilted forward and backward by +/- 22.5° on vertical mounting surface can be tilted forward and backward by +/- 22.5° on vertical mounting surface can be tilted forward and backward by +/- 22.5° on vertical mounting surface can be tilted forwards and backward by +/- 22.5° on vertical mounting surface can be tilted forwards and backward by +/- 22.5° on vertical mounting surface can be tilted forwards and backward by +/- 22.5° on vertical mounting surface can be tilted forwards and backward by +/- 22.5° on vertical mounting surface can be tilted forwards and backward by +/- 22.5° on vertical mounting surface can be tilted forwards and backward by +/- 22.5° on vertical mounting surface can be tilted forwards an	<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
with type of assignment 2 required     9G: 160A (690V, 100kA), BK 80A (690V, 100kA), BS88: 125A (415V, 80kA)       • for short-circuit protection of the auxiliary switch required     9G: 10 A(500 V, 1 kA)       Installation/ mounting/ dimensions     4/180° 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       • side-by-side mounting     Yes       height     140 mm       width     70 mm       depth     152 mm       • of rigrounded parts     0 mm       - forwards     10 mm       - at the side     0 mm       - forwards     10 mm       - forwards     20 mm       - forwards     10 mm       - forwards     10 mm       - at the side     0 mm       - forwards     10 mm       - at the side     10 mm       - forwards     10 mm       - at the side     10 mm       - at the side     10 mm       - downwards     10 mm       - at the side     10 mm       - forwards     10 mm       - at the side     10 mm       - forwards     10 mm       - at the side     10 mm       - forwards     10 mm       - downwards     10 mm <t< td=""><td><ul> <li>— with type of coordination 1 required</li> </ul></td><td>gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A</td></t<>	<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A
(415V,80kA)         9 for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position       +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface can be tilted forward and backward by +/-22.5° on vertical mounting surface can be tilted forward and backward by +/-22.5° on vertical mounting surface can be tilted forwards and backward by +/-22.5° on vertical mounting surface can be tilted forwards and backward by +/-22.5° on vertical mounting surface can be tilted forwards and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715         • side-by-side mounting       Yes         height       140 mm         with side-by-side mounting       Yes         • of movards       20 mm         - onwards       10 mm         - downwards       10 mm         - at the side       0 mm         - forwards       20 mm         - upwards       10 mm         - forwards       10 mm <t< td=""><td></td><td></td></t<>		
• for short-circuit protection of the auxiliary switch required       gG: 10 A (500 V, 1 kA)         Installation/ mounting/ dimensions       */-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         • side-by-side mounting       Yes         height       140 mm         width       70 mm         depth       152 mm         required spacing       -         • with side-by-side mounting       0 mm         - forwards       20 mm         - upwards       10 mm         - at the side       0 mm         - at the side       10 mm         - upwards       10 mm         - at the side       0 mm         - at the side       10 mm         - at the side       0 mm         - at the side       0 mm         - at the side       10 mm         - downwards       10 mm         - at the side       10 mm         - forwards       20 mm         - at the side	<ul> <li>— with type of assignment 2 required</li> </ul>	
Installation/ mounting/ dimensions         mounting position       +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; scane be tilted forward and backward by +/-22.5° on vertical mounting surface; scane be tilted forward and backward by +/-22.5° on vertical mounting surface; scane be tilted forward and backward by +/-22.5° on vertical mounting surface; scane be tilted forward and backward by +/-22.5° on vertical mounting surface; scane be tilted forward and backward by +/-22.5° on vertical mounting surface; scane be tilted forward and backward by +/-22.5° on vertical mounting surface; scane be tilted forward and backward by +/-22.5° on vertical mounting surface; scane be tilted forward and backward by +/-22.5° on vertical mounting surface; scane be tilted forward and backward by +/-22.5° on vertical mounting surface; scane be tilted forward and backward by +/-22.5° on vertical mounting surface; scane be tilted forward and backward by +/-22.5° on vertical mounting surface; scane be tilted forward and backward by +/-22.5° on vertical mounting surface; scane be tilted forward and backward by +/-22.5° on vertical mounting surface; scane be tilted forward and backward by +/-22.5° on vertical mounting surface; scane be tilted forward and backward by +/-22.5° on vertical mounting surface; scane be the stand form forwards formands form forwards form forwards form forwards form form for grounded parts for low parts for grounded parts fore grounded parts fore grotal scane for grotal scane for grounded p		
Installation/ mounting / dimensions           mounting position         +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715           • side-by-side mounting         Yes           height         140 mm           width         70 mm           depth         152 mm           • offwards         10 mm           - offwards         10 mm           - upwards         10 mm           - at the side         0 mm           - forwards         10 mm           - at the side         0 mm           - forwards         10 mm           - upwards         10 mm           - at the side         0 mm           - forwards         10 mm           - upwards         10 mm           - at the side         10 mm           - forwards         10 mm           - downwards         10 mm           - downwards         10 mm           - downwards         10 mm           - at the side         10 mm           - downwards         10 mm           - at the side         10 mm           - forwards         10 mm		gG: 10 A (500 V, 1 kA)
mounting position       +/-180° rotation possible on vertical mounting surface; can be tilled 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         • side-by-side mounting       Yes         height       140 mm         width       70 mm         depth       152 mm         • with side-by-side mounting          - forwards       20 mm         - forwards       10 mm         - downwards       10 mm         - forwards       20 mm         - forwards       10 mm         - downwards       10 mm         - forwards       20 mm         - forwards       20 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - forwards       20 mm         - upwards       10 mm         - downwards       10 mm         - d	ne eu une d	
fastening method       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       sorew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715         • side-by-side mounting       Yes         height       140 mm         width       70 mm         depth       152 mm         required spacing       •         • with side-by-side mounting       120 mm         - onwards       20 mm         - upwards       10 mm         - downwards       10 mm         - downwards       20 mm         - forwards       20 mm         - at the side       0 mm         - forwards       20 mm         - forwards       10 mm         - at the side       10 mm         - downwards       10 mm         - oforwards       20 mm         - upwards       10 mm         - downwards       10 mm         - at the side       10 mm         - downwards       10 mm         - at the side       10 mm <t< td=""><td></td><td></td></t<>		
fastening method       screw and snap-on mounting onto 35 mm DIN rail according to DIN EN         60715         • side-by-side mounting       Yes         height       140 mm         width       70 mm         depth       152 mm         • with side-by-side mounting       -         • with side-by-side mounting       -         • with side-by-side mounting       -         • forwards       20 mm         - downwards       10 mm         - downwards       0 mm         - forwards       20 mm         - forwards       10 mm         - downwards       10 mm         - forwards       10 mm         - forwards       10 mm         - downwards       10 mm         - downwards       10 mm         - at the side       10 mm         - forwards       10 mm         - forwards       10 mm         - at the side       10 mm         - at the side       10 mm         - at t	Installation/ mounting/ dimensions	
e side-by-side mounting       Yes         height       140 mm         width       70 mm         depth       152 mm         required spacing       -         • with side-by-side mounting       -         - upwards       10 mm         - upwards       10 mm         - downwards       0 mm         - at the side       0 mm         - for grounded parts       0 mm         - upwards       10 mm         - at the side       0 mm         - forwards       20 mm         - upwards       10 mm         - at the side       0 mm         - the side       0 mm         - at the side       10 mm         - downwards       10 mm	Installation/ mounting/ dimensions	+/-180° rotation possible on vertical mounting surface; can be tilted
• side-by-side mountingYesheight140 mmwidth70 mmdepth152 mmrequired spacing-• with side-by-side mounting forwards20 mm- forwards10 mm- downwards0 mm- downwards0 mm- at the side0 mm- for grounded parts forwards20 mm- at the side0 mm- at the side0 mm- at the side10 mm- forwards20 mm- forwards10 mm- forwards10 mm- forwards10 mm- downwards10 mm- at the side10 mm- for auxiliary and control circuitscrew-type terminals- for auxiliary and control circuitscrew-type terminals- at contactor for auxiliary contactsScrew-type terminals	Installation/ mounting/ dimensions mounting position	forward and backward by +/- 22.5° on vertical mounting surface
height       140 mm         width       70 mm         depth       152 mm         required spacing       -         • with side-by-side mounting       -         - forwards       20 mm         - upwards       10 mm         - downwards       10 mm         - downwards       0 mm         - at the side       0 mm         - forwards       20 mm         - at the side       0 mm         - forwards       20 mm         - at the side       0 mm         - upwards       10 mm         - downwards       10 mm         - at the side       10 mm         - at the	Installation/ mounting/ dimensions mounting position	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
width70 mmdepth152 mmrequired spacing152 mm• with side-by-side mounting20 mm- forwards20 mm- upwards10 mm- downwards10 mm- downwards0 mm- at the side0 mm- for grounded parts forwards20 mm- upwards10 mm- at the side0 mm- at the side10 mm- upwards10 mm- at the side10 mm- at the side10 mm- downwards10 mm- downwards10 mm- downwards10 mm- at the side10 mm- at the side10 mm- downwards10 mm- downwards10 mm- downwards10 mm- at the side10 mm- downwards10 mm- at the side10 mm	Installation/ mounting/ dimensions mounting position fastening method	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
depth152 mmrequired spacingI• with side-by-side mounting0 mm- forwards20 mm- upwards10 mm- downwards0 mm- at the side0 mm- at the side0 mm• for grounded parts20 mm- forwards20 mm- upwards10 mm- at the side0 mm- forwards20 mm- upwards10 mm- at the side10 mm- at the side10 mm- at the side10 mm- at the side10 mm- downwards10 mm- for live parts upwards10 mm- downwards10 mm- at the side10 mm- forwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- at the side10 mm- downwards10 mm- downwards10 mm- for auxiliary and control circuitscrew-type terminalsfor auxiliary and control circuitscrew-type terminals- for auxiliary contactsScrew-type terminals	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting	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
required spacingI• with side-by-side mounting20 mm- forwards20 mm- upwards10 mm- downwards0 mm- downwards0 mm- at the side0 mm• for grounded parts20 mm- forwards20 mm- upwards10 mm- at the side10 mm- upwards10 mm- at the side10 mm- at the side10 mm- at the side10 mm- downwards10 mm- forwards20 mm- upwards10 mm- downwards10 mm- forwards20 mm- upwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- downwards10 mm- downwards10 mm- at the side0 mmConnections/ Terminalsscrew-type terminals- for auxiliary and control circuitscrew-type terminals- at contactor for auxiliary contactsScrew-type terminals	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height	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 140 mm
<ul> <li>with side-by-side mounting         <ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>downwards</li> <li>mm</li> <li>at the side</li> <li>ormm</li> </ul> </li> <li>for grounded parts</li> <li>forwards</li> <li>mm</li> <li>at the side</li> </ul> <li>forwards</li> <li>mm</li> <li>at the side</li> <li>mm</li> <li>for live parts</li> <li>for wards</li> <li>mm</li> <li>downwards</li> <li>mm</li> <li>downwards</li> <li>mm</li> <li>at the side</li> <li>mm</li> <li>mm</li> <li>at be side</li> <li>mm</li> <limm< li=""> <limm< li=""></limm<></limm<>	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width	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 140 mm 70 mm
- forwards20 mm- upwards10 mm- downwards10 mm- at the side0 mm- at the side0 mm• for grounded parts20 mm- forwards20 mm- upwards10 mm- at the side10 mm- at the side10 mm- downwards10 mm- downwards10 mm- forwards20 mm- downwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- at the side10 mm </td <td>Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth</td> <td>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 140 mm 70 mm</td>	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth	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 140 mm 70 mm
- upwards10 mm- downwards10 mm- at the side0 mm- at the side0 mm• for grounded parts20 mm- forwards20 mm- upwards10 mm- at the side10 mm- at the side10 mm- downwards10 mm- for live parts0- forwards20 mm- forwards10 mm- downwards10 mm- forwards10 mm- at the side10 mm- downwards10 mm- at the side10 mm- downwards10 mm- at the side10 mm- for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing	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 140 mm 70 mm
- downwards10 mm- at the side0 mm• for grounded parts0 mm- forwards20 mm- upwards10 mm- at the side10 mm- at the side10 mm- downwards10 mm- downwards10 mm- for vards20 mm- downwards10 mm- forwards20 mm- forwards20 mm- forwards10 mm- forwards10 mm- at the side10 mm- at the side5 crew-type terminals- for main current circuitscrew-type terminals- for auxiliary and control circuitscrew-type terminals- at contactor for auxiliary contacts5 crew-type terminals	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	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 140 mm 70 mm 152 mm
at the side0 mm• for grounded parts20 mm forwards20 mm upwards10 mm at the side10 mm downwards10 mm downwards10 mm• for live parts20 mm forwards20 mm upwards10 mm downwards10 mm at the side10 mm downwards10 mm at the side10 mm at the side10 mm at the side10 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	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 140 mm 70 mm 152 mm
<ul> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>do mm</li> <li>at the side</li> <li>mm</li> <li>downwards</li> <li>for live parts</li> <li>for live parts</li> <li>forwards</li> <li>at the side</li> <li>mm</li> <li>at the side</li> <li>mm</li> <li>forwards</li> <li>mm</li> <li>at the side</li> <li>mm</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>Screw-type terminals</li> <li>Screw-type terminals</li> </ul>	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards	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 140 mm 70 mm 152 mm 20 mm 10 mm
- forwards20 mm- upwards10 mm- at the side10 mm- downwards10 mm- for live parts20 mm- forwards20 mm- upwards10 mm- downwards10 mm- at the side10 mm- at the side5 crew-type terminals- for main current circuitscrew-type terminals- for auxiliary and control circuitscrew-type terminals- at contactor for auxiliary contacts5 crew-type terminals	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	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 140 mm 70 mm 152 mm 20 mm 10 mm 10 mm
upwards10 mm at the side10 mm downwards10 mm downwards20 mm forwards20 mm upwards10 mm downwards10 mm at the side10 mm at the side5 crew-type terminals at current circuitscrew-type terminals at contactor for auxiliary contacts5 crew-type terminals	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	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 140 mm 70 mm 152 mm 20 mm 10 mm 10 mm
at the side       10 mm         downwards       10 mm         • for live parts       20 mm         forwards       20 mm         upwards       10 mm         downwards       10 mm         downwards       10 mm         at the side       10 mm         formain current circuit       screw-type terminals         • for main current circuit       screw-type terminals         • at contactor for auxiliary contacts       Screw-type terminals	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	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 140 mm 70 mm 152 mm 20 mm 10 mm 10 mm
downwards10 mm• for live parts20 mm forwards20 mm upwards10 mm downwards10 mm at the side10 mm at the side10 mm <b>Connections/ Terminals</b> screw-type terminals• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	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 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm
<ul> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>downwards</li> <li>at the side</li> <li>10 mm</li> <li>at the side</li> <li>10 mm</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>Screw-type terminals</li> <li>at contactor for auxiliary contacts</li> </ul>	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	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 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 20 mm
forwards       20 mm         upwards       10 mm         downwards       10 mm         at the side       10 mm         at the side       10 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	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side	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 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 20 mm 10 mm
forwards       20 mm         upwards       10 mm         downwards       10 mm         at the side       10 mm         at the side       10 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	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side	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 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm
downwards     10 mm       at the side     10 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	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side — downwards	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 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm
downwards     10 mm       at the side     10 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	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — oforwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — ownwards — at the side — ownwards — at the side — forwards — other side — for upwards — for upwards	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 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm
	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — oforwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • downwards — at the side — downwards — at the side — for live parts — forwards • for live parts — forwards	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 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 20 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	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — oforwards — upwards — downwards — at the side • for grounded parts — oforwards — upwards — at the side • downwards — at the side — oforwards — at the side — oforwards — at the side — oforwards — ofor live parts — forwards — forwards — upwards • for live parts — forwards — upwards • for live parts — forwards — upwards	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 140 mm 70 mm 152 mm 20 mm 10 mm 20 mm 10 mm 20 mm 10 mm 20 mm 10 mm 10 mm
type of electrical connection       screw-type terminals         • for main current circuit       screw-type terminals         • for auxiliary and control circuit       screw-type terminals         • at contactor for auxiliary contacts       Screw-type terminals	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards • for live parts — forwards • for live parts — forwards — upwards — downwards • for live parts — forwards — upwards — downwards	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 140 mm 70 mm 152 mm 20 mm 10 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
• for main current circuit     screw-type terminals       • for auxiliary and control circuit     screw-type terminals       • at contactor for auxiliary contacts     Screw-type terminals	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — a the side • for grounded parts — forwards — at the side — downwards — at the side — downwards • for live parts — forwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards — at the side	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 140 mm 70 mm 152 mm 20 mm 10 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
for auxiliary and control circuit screw-type terminals     at contactor for auxiliary contacts Screw-type terminals	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — oforwards — upwards — a the side • for grounded parts — oforwards — at the side • for grounded parts — forwards — at the side — downwards • for live parts — forwards • for live parts — oforwards • at the side — downwards • at the side — at the side — at the side — at the side	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 140 mm 70 mm 152 mm 20 mm 10 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
at contactor for auxiliary contacts     Screw-type terminals	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — a the side • for grounded parts — forwards — at the side • for live parts — forwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards — the side — the side — the side	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 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — a the side • for grounded parts — forwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — at the side — downwards — at the side — downwards — at the side — downwards — of the side — the side — the side	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 140 mm 70 mm 152 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
of magnet coil     Screw-type terminals	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — a the side • for grounded parts — forwards — at the side • for live parts — forwards • for live parts — forwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — at the side — downwards — at the side — for main current circuit • for auxiliary and control circuit	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 140 mm 70 mm 152 mm 20 mm 10 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
	Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — at the side — downwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — upwards — upwards — downwards — at the side — downwards — at the side — forwards — upwards — at the side — formards — upwards — at the side	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 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm

type of connectable co contacts	onductor cross-sections	for main				
	with core end processin	a	2x (2.5 35 n	$nm^2$ ) 1x (2.5	50 mm²)	
	tor cross-section for I	0	28 (2.3 33 11	nini ), 1X (2.5 .		
• solid			2.5 16 mm²			
stranded			6 70 mm <sup>2</sup>			
	with core end processin	a	2.5 50 mm <sup>2</sup>			
connectable conduc	tor cross-section for a	-				
contacts	J					
<ul> <li>solid or stranded</li> </ul>			0.5 2.5 mm <sup>2</sup>			
	with core end processin	0	0.5 2.5 mm²			
<ul> <li>for auxiliary con</li> </ul>	conductor cross-sect	ions				
● for adxillary con			2x (0.5 1.5 r	$mm^2$ ) 2x (0.74	$5 - 2.5 \text{ mm}^2$	
	ided with core end proc	essina	2x (0.5 1.5 r			
-	for auxiliary contacts	essing	2x (0.5 1.5 )		J 2.5 mm )	
	led connectable cond	uctor cross	27 (20 10), 2	27 (10 14)		
section						
<ul> <li>for main contact</li> </ul>	ts		10 2			
<ul> <li>for auxiliary con</li> </ul>	tacts		20 14			
Safety related data						
product function						
<ul> <li>mirror contact a</li> </ul>	ccording to IEC 60947-	4-1	Yes			
	operation according to	IEC 60947-	No			
5-1 D40 weber with high d		0104000	4 000 000			
-	emand rate according to	5 SN 31920	1 000 000			
proportion of dange		21020	40 %			
	d rate according to SN		40 % 73 %			
-	nd rate according to SN		73 % 100 FIT			
31920	ow demand rate accord		100 FT1			
	t interval or service life a	according to	20 a			
	on the front according	to IEC	IP20			
60529						
	the front according to	IEC 60529	finger-safe, for	r vertical conta	act from the front	
suitability for use						
-	<ul> <li>safety-related switching on</li> </ul>		No			
<ul> <li>safety-related st</li> </ul>	0		Yes			
Certificates/ approvals	S					
General Product Approval						
0	<u>Confirmation</u>				<u>KC</u>	
(SA	<u></u>	( <b>m</b> )	(	ΰ,)		EHC
			· ·			СПГ
CSA		ccc		UL		
	Functional					
EMC	Safety/Safety of	Declaration o	f Conformity		Test Certificates	
	Machinery					
-						
A	Type Examination	UK			Special Test Certific-	Type Test Certific-
<u>(@)</u>	<u>Certificate</u>	UK		LE L	ate	ates/Test Report
RCM		LH	E	G-Konf.		
Marine / Shipping						
manne / Snipping						













other	Railway	Dangerous Good
Confirmation	Vibration and Shock	<u>Transport Informa-</u> tion

## Further information

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=3RT2045-1NP30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2045-1NP30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1NP30

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

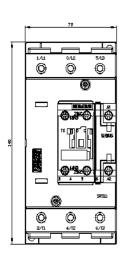
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2045-1NP30&lang=en

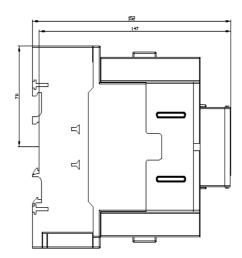
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

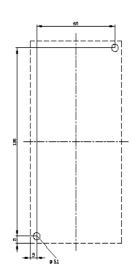
https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1NP30/char

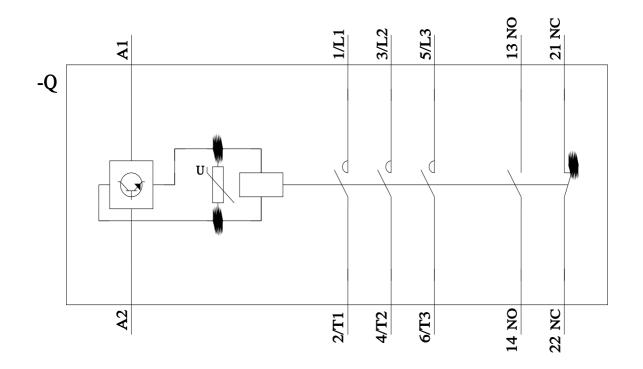
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2045-1NP30&objecttype=14&gridview=view1









last modified:

2/10/2023 🖸