SIEMENS

Data sheet 3RT2046-1AG24



power contactor, AC-3e/AC-3, 95 A, 45 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S3, removable auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S3
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 	19.8 W
 at AC in hot operating state per pole 	6.6 W
without load current share typical	25 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
of main circuit rated value	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation 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
shock resistance with sine pulse	
• at AC	16.3g / 5 ms, 10.g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
of the contactor with added auxiliary switch block typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
Weight	1.756 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	405 kg
global warming potential [CO2 eq] during manufacturing	7.66 kg
global warming potential [CO2 eq] during operation	399 kg
global warming potential [CO2 eq] after end of life	-1.19 kg
Main circuit	1.10 kg
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	3
at AC-3 rated value maximum	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	400.4
 at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 	130 A
up to 690 V at ambient temperature 40 °C rated value	130 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	110 A
• at AC-3	
— at 400 V rated value	95 A
— at 500 V rated value	95 A
— at 690 V rated value	78 A
— at 1000 V rated value	30 A
• at AC-3e	
— at 400 V rated value	95 A
— at 500 V rated value	95 A
— at 690 V rated value	78 A
— at 1000 V rated value	30 A
• at AC-4 at 400 V rated value	80 A
• at AC-5a up to 690 V rated value	114 A
• at AC-5b up to 400 V rated value	95 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	84.4 A
— up to 400 V for current peak value n=20 rated value	84.4 A
— up to 500 V for current peak value n=20 rated value	84.4 A
— up to 690 V for current peak value n=20 rated value	58 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	56.3 A
— up to 400 V for current peak value n=30 rated value	56.3 A
— up to 500 V for current peak value n=30 rated value	56.3 A
— up to 690 V for current peak value n=30 rated value	56.3 A
minimum cross-section in main circuit at maximum AC-1 rated	50 mm ²
value operational current for approx. 200000 operating cycles at AC-4	
	42 A
at 400 V rated value at 600 V rated value	42 A
• at 690 V rated value	30 A
operational current	
• at 1 current path at DC-1	100 A
— 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
with 2 current paths in series at DC-1	400.4
— 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	1.0 A
with 3 current paths in series at DC-1	
— 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	2.0 A
— at 24 V rated value	40 A
— at 60 V rated value	6 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.15 A
— at 600 V rated value	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	0.1071
— 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	0.0071
at AC-2 at 400 V rated value	45 kW
• at AC-3	· · · · · · · · · · · · · · · · · · ·
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
— at 1000 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
— at 1000 V rated value	37 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	22 kW
at 690 V rated value	27.4 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	33 kVA
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value 	33 kVA 58 kVA
· · · · · · · · · · · · · · · · · · ·	
• up to 400 V for current peak value n=20 rated value	58 kVA
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 	58 kVA 73 kVA
 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 	58 kVA 73 kVA
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 operating apparent power at AC-6a	58 kVA 73 kVA 69 kVA
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 operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value	58 kVA 73 kVA 69 kVA 22.4 kVA
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 operating apparent power 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	58 kVA 73 kVA 69 kVA 22.4 kVA 39 kVA
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 operating apparent power 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to	58 kVA 73 kVA 69 kVA 22.4 kVA 39 kVA 48.7 kVA
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 operating apparent power 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 690 V for current peak value n=30 rated value	58 kVA 73 kVA 69 kVA 22.4 kVA 39 kVA 48.7 kVA

• limited to 5 s switching at zero current maximum	1 297 A; Use minimum cross-section acc. to AC-1 rated value
limited to 3 s switching at zero current maximum limited to 10 s switching at zero current maximum	946 A; Use minimum cross-section acc. to AC-1 rated value
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limited to 30 s switching at zero current maximum	610 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	486 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	- 000 4W
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	900 1/h
• at AC-2 maximum	350 1/h
• at AC-3 maximum	850 1/h
• at AC-3e	
— maximum	850 1/h
at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
 at 50 Hz rated value 	110 V
• at 60 Hz rated value	110 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	348 VA
• at 60 Hz	296 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.62
● at 60 Hz	0.55
apparent holding power of magnet coil at AC	
● at 50 Hz	25 VA
• at 60 Hz	18 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.35
• at 60 Hz	0.41
closing delay	
• at AC	13 50 ms
opening delay	
• at AC	10 21 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	2
contact	
number of NO contacts for auxiliary contacts instantaneous contact	2
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
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	6 A

— with type of coordination 2 required gG: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface fastening method side-by-side mounting Yes		
1	 at 48 V rated value 	2 A
• at 125 V rated value	 at 60 V rated value 	2 A
e. at 250 V rated value	 at 110 V rated value 	1 A
• at 400 V rated value	at 125 V rated value	0.9 A
Second content reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)	at 220 V rated value	0.3 A
Second content reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)	at 600 V rated value	0.1 A
Tull-Oad current (FLA) for 3-phase AC motor at 480 V rated value 77 A 10 hp 10 for single-phase AC motor 11 10/12/0 V rated value 10 hp 10 hp 10 rated value 10 hp 10 hp 11 10/12/0 V rated value 10 hp 12 0 hp 13 10/12/0 V rated value 10 hp 14 10/12/0 V rated value 15 hp 16 rate value 16 rate value 17 hp 18 pp		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 800 V rated value • at 101020 V rated value • at 2000208 V rated value • at 8000200 V rated value • at 8000200 V rated value • at 800000 V rated value • at 800000 V rated value • at 800000 V rated value • at 80000 V rated value • at 8000 V resolution of 8000 V rated value • at 8000 V resolution of 8000 V rated value • at 8000 V resolution of 8000 V rated value • for short-circuit protection of the auxiliary circuit up 10 230 V design of the ministrue circuit breaker for short-circuit protection of the auxiliary circuit up 10 230 V design of the ministrue circuit breaker for short-circuit protection of the auxiliary circuit up 10 230 V design of the ministrue circuit breaker for short-circuit protection of the auxiliary circuit up 10 230 V design of the fundative circuit breaker for short-circuit protection of the auxiliary circuit up 10 230 V e for short-circuit protection of the main circuit - with type of coordination 1 required yes 160 A (850 V, 100 kA), aM: 100 A (850 V, 100 kA), BS88: 250 A (415 V kA) yes 160 A (850 V, 100 kA), aM: 100 A (850 V, 100 kA), BS88: 250 A (415 V kA) yes 160 A (850 V, 100 kA), aM: 100 A (850 V, 100 kA), BS88: 250 A (415 V kA) yes 160 A (850 V, 100 kA), aM: 100 A (850 V, 100 kA), BS88: 250 A (415 V kA) yes 160 A (850 V, 100 kA), aM: 100 A (850 V, 100 kA), BS88: 250 A (415 V kA) yes 160 A (850 V, 100 kA), aM: 100 A (850 V, 100 kA), BS88: 250 A (415 V kA) yes 160 A (850 V, 100 kA), aM: 100 A (850 V, 100 kA), BS88: 250 A (415 V kA) yes 160 A (850 V, 100 kA), aM: 100 A (850 V, 100 kA), BS88: 250 A (415 V kA) yes 160 A (850 V, 100 kA), aM: 100 A (850 V, 100 k		
a at 480 V rated value 96 A 77 A 78 78 78 78 78 78		
• at 500 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 1101/20 V rated value — at 220 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 275,800 V rated value — at 300 hp — at 460/480 V rated value — at 575,800 V rated value — at 680,400 V rated value — with type of coordination of the main circuit — with type of coordination 1 required — with type of coordination 1 required after short-circuit protection of the auxiliary switch required installation innounting dimensions mounting position * for short-circuit protection of the auxiliary switch required installation innounting indimensions mounting position fastening method side-by-side mounting fastening method side-by-side mounting fastening method side-by-side mounting with side-by-side mounting * with side-by-side mounting • orwards — owards — of owards — owards — owards — owards — owards — of owards — owards — of owards — owards — owards — of owards — owards — of owards — owards — of owards — owards — owards — of owards — owards — of owards — owards — owards — of owards — owar		06.4
yielded mechanical performance (hp) • for single-phase AC motor — at 1101/20 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 404/80 V rated value — at 404/80 V rated value — at 675/800 V rated value — at 575/800 V rated value — at 575/800 V rated value — at 575/800 V rated value — at 675/800 V rated value Contact rating of auxiliary contacts according to UL Short-circuit protection design of the ministure circuit breaker for short-circuit protection of the auxiliary corticuit on the main circuit — with type of coordination 1 required — with type of coordination 1 required — with type of coordination 2 required — with type of coordination 2 required — with type of coordination 2 required — so for short-circuit protection of the auxiliary switch required — so for short-circuit protection of the auxiliary switch required gg: 10 A (500 V, 10 kA), aM: 100 A (690 V, 100 kA), BS88: 220 A (415 V kA) • for short-circuit protection of the auxiliary switch required gg: 10 A (500 V, 1 kA) ** Installation/mounting/dimensions ###################################		
for single-phase AC motor		// A
- at 110/120 V rated value - at 230 V rated value - 20 hp - 4 for 3-phase AC motor at 200/208 V rated value - 30 hp at 200/208 V rated value - 30 hp at 200/208 V rated value - 76 hp at 575/500 V rated value - 75 hp		
- at 230 V rated value • for 3-phase AC motor - at 200/230 V rated value - at 220/230 V rated value - at 220/230 V rated value - at 480/480 V rated value - at 575:600 V rated value -	- · ·	
of or 3-phase AC motor	— at 110/120 V rated value	10 hp
- at 200/208 V rated value	— at 230 V rated value	20 hp
- at 220/230 V rated value 75 hp 75	 for 3-phase AC motor 	
- at 460480 V rated value 75 hp at 575/000 V rated value 75 hp contact rating of auxillary contacts according to UL Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary cortact up to 230 V design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-dircuit protection of the auxiliary switch required • for short-dircuit protection of the auxiliary switch required • for short-dircuit protection of the auxiliary switch required • for short-dircuit protection of the auxiliary switch required • for short-dircuit protection of the auxiliary switch required • for short-dircuit protection of the auxiliary switch required • for short-dircuit protection of the auxiliary switch required • for short-dircuit protection of the auxiliary switch required • for short-dircuit protection of the auxiliary switch required • for short-dircuit protection of the auxiliary switch required • for short-dircuit mounting difference and the surface, can be tilted forward backward by +- 22.5° on vertical mounting surface, can be tilted forward backward by +- 22.5° on vertical mounting surface, can be tilted forward backward by +- 22.5° on vertical mounting surface, can be tilted forward backward by +- 22.5° on vertical mounting surface, can be tilted forward backward by +- 22.5° on vertical mounting surface, can be tilted forward backward by +- 22.5° on vertical mounting surface, can be tilted forward backward by +- 22.5° on vertical mounting surface, can be tilted forward backward by +- 22.5° on vertical mounting surface, can be tilted forward backward by +- 22.5° on vertical mounting onto 35 mm DIN rall according to DIN EN 607 for minimal protection of the auxiliary and control of the minimal protection of the auxiliary and control of circu	— at 200/208 V rated value	30 hp
- at 575/600 V rated value 75 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the ministure circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 2 required with type of coordination 2 required for short-circuit protection of the auxiliary switch required fastallation/ mounting/ dimensions mounting position #/-180" rotation possible on vertical mounting surface; can be tilted forward backward by #/- 22.5" on vertical mounting surface; can be tilted forward backward by #/- 22.5" on vertical mounting surface; can be tilted forward backward by #/- 22.5" on vertical mounting surface; can be tilted forward backward by #/- 22.5" on vertical mounting surface; can be tilted forward backward by #/- 22.5" on vertical mounting surface; can be tilted forward backward by #/- 22.5" on vertical mounting surface; can be tilted forward backward by #/- 22.5" on vertical mounting surface; can be tilted forward backward by #/- 22.5" on vertical mounting surface; can be tilted forward backward by #/- 22.5" on vertical mounting surface; can be tilted forward backward by #/- 22.5" on vertical mounting surface; can be tilted forward backward by #/- 22.5" on vertical mounting surface; can be tilted forward backward by #/- 22.5" on vertical mounting surface; can be tilted forward backward by #/- 22.5" on vertical mounting surface; can be tilted forward backward by #/- 22.5" on vertical mounting surface; can be tilted forward backward by #/- 22.5" on vertical mounting surface; can be tilted forward backward by #/- 22.5" on vertical mounting surface;	— at 220/230 V rated value	30 hp
contact rating of auxiliary contacts according to UL Short-circuit protection design of the ministure circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required gG: 260 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 200 A (415 V kA) • for short-circuit protection of the auxiliary switch required gG: 260 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 200 A (415 V kA) • for short-circuit protection of the auxiliary switch required gG: 260 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 200 A (415 V kA) • for short-circuit protection of the auxiliary switch required gG: 260 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) • for short-circuit protection of the auxiliary switch required gG: 260 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), aM: 160 A (150 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (150 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (150 V	— at 460/480 V rated value	75 hp
contact rating of auxiliary contacts according to UL Short-circuit protection design of the ministure circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required gG: 260 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 200 A (415 V kA) • for short-circuit protection of the auxiliary switch required gG: 260 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 200 A (415 V kA) • for short-circuit protection of the auxiliary switch required gG: 260 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 200 A (415 V kA) • for short-circuit protection of the auxiliary switch required gG: 260 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) • for short-circuit protection of the auxiliary switch required gG: 260 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), aM: 160 A (150 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (150 V kA) gG: 160 A (690 V, 100 kA), aM: 160 A (150 V	— at 575/600 V rated value	75 hp
Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link For short-circuit protection of the main circuit	contact rating of auxiliary contacts according to UL	·
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link elosing of the fuse link of the sus link of for short-circuit protection of the main circuit with type of coordination 1 required		
design of the fuse link Installation/ mounting/ dimensions with type of coordination 2 required with type of coordination 2 required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting with the depth required spacing with side-by-side mounting owith side-by-side mounting surface; can be tilted forward section of the sacklard mounting surface; can be tilted forward section of the sacklard mounting surface; can be tilted forward section of the sacklard mounting surface; can be tilted forward section of the sacklard mounting surface; can be tilted forward section of the sacklard mounting surface; can be tilted forward section of the sacklard mounting surface; can be tilted forward section of the sacklard mounting surface; can be tilted forward section of the sacklard mounting surface; can be tilted forward section of the sacklard mounting surface; can be tilted forward section of the	design of the miniature circuit breaker for short-circuit protection	C characteristic: 10 A; 0.4 kA
• for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required — with type of coordination 2 required — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for auxiliary and control circuit • for auxiliary and control circuit • screw-type terminals		
- with type of coordination 1 required - with type of coordination 2 required - with type of coordination 2 required - with type of coordination 2 required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the protecti	-	
with type of coordination 2 required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required installation/ mounting/ dimensions mounting position fastening method side-by-side mounting fastening method side-by-side mounting required spacing of with side-by-side mounting forwards upwards at the side forgrounded parts forwards upwards at the side odownwards at the side downwards odownwards of or main current circuit of or ain current circuit of or ain current circuit of or ain current circuit of odown circuit of the circuit circuit of the circuit circuit of the circuit	•	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position ##-180° rotation possible on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface fastening method side-by-side mounting fastening method ##-180° rotation possible on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; fastening method side-by-side mounting ##-140 mm ##-14	— with type of coordination 2 required	gG: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80
mounting position	• for short-circuit protection of the auxiliary switch required	
## mounting position ## /-180° rotation possible on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface fastening method side-by-side mounting fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 607 height 140 mm width 70 mm depth 195 mm required spacing with side-by-side mounting - forwards - upwards - upwards - at the side o mm for grounded parts - forwards - upwards - upwards - at the side of or grounded parts - forwards - upwards - at the side - downwards - at the side - forwards - upwards - for live parts - forwards - upwards - upwards - upwards - to mm - downwards - upwards - to mm - downwards - to mm - to mm - downwards - downwards - to mm - to main current circuit - for auxiliary and control circuit - for au		90. 10 A (000 V, 1 KA)
fastening method side-by-side mounting fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 607 height 140 mm 70 mm depth required spacing with side-by-side mounting - forwards - upwards - upwards - downwards - at the side for grounded parts - forwards - upwards - upwards - upwards - at the side - downwards - at the side - for main current circuit for main current circuit - for auxiliary and control circuit screw-type terminals **Connections/** **Town main surrent circuit **Sorew-type terminals **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting onto 35 mm DIN rail according to DIN EN 607 **Town mounting o	mstanation/ mounting/ unitensions	
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height 140 mm width 70 mm depth 195 mm required spacing • with side-by-side mounting — forwards 20 mm — upwards 10 mm — at the side 0 mm • for grounded parts — forwards 20 mm — at the side 10 mm • at the side 10 mm — at the side 10 mm — at the side 10 mm — at the side 20 mm — upwards 10 mm • for live parts 10 mm • for live parts — forwards 20 mm — at the side 10 mm • for live parts — forwards 20 mm — at the side 10 mm • for live parts — forwards 10 mm — at the side 10 mm — downwards 10 mm — of or main current circuit screw-type terminals • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals		
width 70 mm depth 195 mm required spacing	mounting position	backward by +/- 22.5° on vertical mounting surface Yes
depth required spacing • with side-by-side mounting — forwards 20 mm — upwards 10 mm — downwards 10 mm — at the side 0 mm • for grounded parts 20 mm — upwards 10 mm — at the side 10 mm — downwards 10 mm • for live parts 20 mm — upwards 10 mm — downwards 10 mm — at the side 10 mm — at the side 10 mm Connections/ Terminals type of electrical connection screw-type terminals • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals	mounting position fastening method side-by-side mounting	backward by +/- 22.5° on vertical mounting surface
required spacing • with side-by-side mounting — forwards — upwards — upwards — downwards — at the side — o mm • for grounded parts — forwards — upwards — upwards — 10 mm — at the side — upwards — upwards — at the side — 10 mm — at the side — of mim — at the side — odwnwards — of live parts — forwards — upwards — upwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — upwards — upwards — the side — the side — to mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit screw-type terminals	mounting position fastening method side-by-side mounting fastening method	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
with side-by-side mounting — forwards — upwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — upwards — forwards — upwards — upwards — upwards — upwards — at the side — downwards — at the side — downwards — for live parts — forwards — upwards — upwards — upwards — in mm — downwards — upwards — to mm — downwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit screw-type terminals	mounting position fastening method side-by-side mounting fastening method height	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm
- forwards 20 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm • for grounded parts - forwards 20 mm - upwards 10 mm - at the side 10 mm - downwards 10 mm • for live parts - forwards 20 mm - upwards 10 mm - at the side 10 mm • for live parts - forwards 20 mm - upwards 10 mm - at the side 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm - at the side 50 mm	mounting position fastening method side-by-side mounting fastening method height width	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm
upwards 10 mm downwards 0 mm at the side 0 mm • for grounded parts forwards 20 mm upwards 10 mm at the side 10 mm downwards 10 mm downwards 20 mm for live parts forwards 20 mm upwards 10 mm • for live parts 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	mounting position fastening method side-by-side mounting fastening method height width depth	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm
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- at the side 0 mm • for grounded parts - forwards 20 mm - upwards 10 mm - at the side 10 mm - downwards 10 mm • for live parts - forwards 20 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - 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	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm
for grounded parts — forwards — upwards — at the side — downwards — for live parts — forwards — upwards — upwards — upwards — upwards — upwards — at the side — at the side Connections/ Terminals type of electrical connection — for main current circuit — for auxiliary and control circuit screw-type terminals • for auxiliary and control circuit screw-type terminals	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm
for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — forwards — upwards — upwards — at the side — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit e for auxiliary and control circuit 20 mm 10 mm 20 mm 10 mm 5 crew-type terminals screw-type terminals	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm
forwards 20 mm upwards 10 mm at the side 10 mm downwards 10 mm for live parts forwards 20 mm upwards 10 mm upwards 10 mm downwards 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	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm
- upwards - at the side - at the side - downwards 10 mm - downwards 10 mm • for live parts - forwards - upwards - upwards - downwards - at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit screw-type terminals	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm
- at the side - downwards 10 mm • for live parts - forwards - upwards - upwards 10 mm - downwards 10 mm - at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit screw-type terminals • for auxiliary and control circuit	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm 10 mm 0 mm
- downwards • for live parts - forwards - upwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit screw-type terminals	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm 0 mm 0 mm
for live parts — forwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm 0 mm 0 mm
- forwards 20 mm - upwards 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	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • at the side • at the side • at the side	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm
 upwards downwards at the side mm Terminals type of electrical connection for main current circuit for auxiliary and control circuit screw-type terminals screw-type terminals 	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for downwards — at the side — downwards — at the side — downwards	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm 0 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	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 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	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm 0 mm 10 mm
type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • of or grounded parts — forwards — at the side — downwards • for live parts — forwards — upwards	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm 0 mm 10 mm
type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards • for live parts — forwards — upwards — upwards — upwards — downwards	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm 0 mm 10 mm
 for main current circuit for auxiliary and control circuit screw-type terminals screw-type terminals 	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • of or grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards • for live parts — forwards — upwards — downwards — at the side — downwards — at the side	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm 0 mm 10 mm
• for auxiliary and control circuit screw-type terminals	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • of or grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards • for live parts — forwards — upwards — downwards — at the side — downwards — at the side	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm 0 mm 10 mm
	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards — upwards — at the side — downwards — at the side Connections/ Terminals	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm 0 mm 10 mm
	mounting position fastening method side-by-side mounting fastening method 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 • for live parts — forwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards — upwards — at the side Connections/ Terminals type of electrical connection	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm 0 mm 10 mm
	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm 0 mm 10 mm
of magnet coil Screw-type terminals	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for live parts — forwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm 0 mm 10 mm
type of connectable conductor cross-sections	mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for live parts — forwards — upwards — at the side — downwards • at the side — downwards — at the side — downwards — torwards — upwards — upwards — upwards — upwards — of orwards — upwards — of orwards — upwards — of orwards — of or mards — of orwards —	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 195 mm 20 mm 10 mm 0 mm 10 mm Screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals

• for main contacts	
 finely stranded with core end processing 	2x (2.5 35 mm²), 1x (2.5 50 mm²)
 for AWG cables for main contacts 	2x (10 1/0), 1x (10 2/0)
connectable conductor cross-section for main contacts	
• solid	2.5 16 mm²
• stranded	6 70 mm ²
 finely stranded with core end processing 	2.5 50 mm²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
 solid or stranded 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
AWG number extended as coded connectable conductor cross section for main contacts	10 2/0
AWG number as coded connectable conductor cross section for auxiliary contacts	20 14
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947-5-1 	No
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
with high demand rate according to SN 31920	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	
General Product Approval	









<u>KC</u>



EMV **Test Certificates** Maritime application



Special Test Certific-<u>ate</u>









Railway Maritime application other Dangerous goods







Confirmation

Special Test Certificate

<u>Transport Information</u>

Environment



Environmental Confirmations

Further information

Information on the packaging

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

Information for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

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=3RT2046-1AG24

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-1AG24

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AG24

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

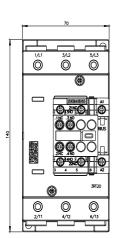
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2046-1AG24&lang=er

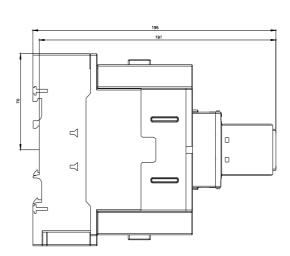
Characteristic: Tripping characteristics, I2t, Let-through current

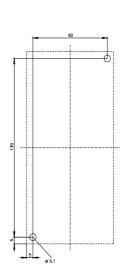
https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AG24/char

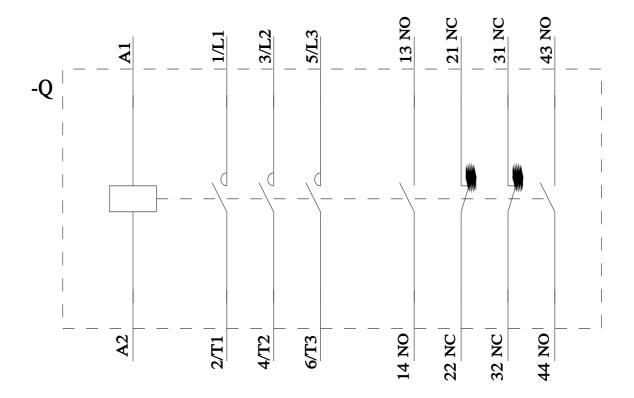
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-1AG24&objecttype=14&gridview=view1









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