SIEMENS

Data sheet

3RT2046-1AL20



power contactor, AC-3e/AC-3, 95 A, 45 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3 $\,$

4/2 6/1	
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	1.727 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	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	1 000 V
 at AC-3e rated value maximum 	1 000 V
operational current	
 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 °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 at AC-6a	95 A
 — 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 at AC-6a 	58 A
— 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 value	50 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	42 A
at 690 V rated value	30 A
operational current • 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
 with 2 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	10 A

— at 440 V rated value	1.8 A
— at 600 V rated value	1.8 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 10 V rated value	100 A
	80 A
— at 220 V rated value	
— 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	40.0
— 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	400 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 0.42 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	400 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	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
 operating power at AC-2 at 400 V rated value 	45 1444
	45 kW
• at AC-3	20 MM
— at 230 V rated value — at 400 V rated value	22 kW 45 kW
— at 500 V rated value	45 kW
— at 500 V rated value — at 690 V rated value	75 kW
	37 kW
— at 1000 V rated value	57 KVV
at AC-3e at 220 V retadivalua	22 MM
— 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 400 V for current peak value n=20 rated value 	58 kVA
 up to 500 V for current peak value n=20 rated value 	73 kVA
 up to 690 V for current peak value n=20 rated value 	69 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	22.4 kVA
 up to 400 V for current peak value n=30 rated value 	39 kVA
 up to 500 V for current peak value n=30 rated value 	48.7 kVA
 up to 690 V for current peak value n=30 rated value 	67.3 kVA
short-time withstand current in cold operating state up to 40 °C	
• limited to 1 s switching at zero current maximum	1 725 A; Use minimum cross-section acc. to AC-1 rated value

 limited to 5 s switching at zero current maximum 	1 297 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	946 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	610 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	486 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• 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	230 V
at 60 Hz rated value	230 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 contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	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	10 A
• at 48 V rated value	2 A

• el 10 V taled value 2 A • el 110 V taled value 0.9 A • el 20 V taled value 0.3 A • el 20 V taled value 0.3 A • el 20 V taled value 0.1 A Contract reliability of auxiliary contacts 11 fully switching per 100 milion (17 V, 1 mA) ULCSA straining 10 tales AC motor • el 20 V taled value 00 A • el 20 V taled value 20 tale • el 20 V taled value 75 hp • el 20 tal (20 A (800 V, 100 A), abl: 100 A (800 V, 100 A), abl: 100 A (800 V, 100 A), ab		
 4125 V rand value 77 A 4125 V rand value 78 A 4125 V rand value 78 A 4125 V rand value 4126 V ra	 at 60 V rated value 	2 A
• at 220 V rade value 0.3.4 • at 600 V rated value 14 auly switching per 100 million (17 V, 1 mA) UUC8A strings UUC8A strings UUC8A strings 96 A • at 400 V rated value 96 A • at 400 V rated value 97 A Vieldad current (FLA) for 3-phase AC motor 96 A • at 400 V rated value 77 A Vieldad mechanical performance (hp) • 10 hp • - at 101/20 V rated value 20 hp • - at 220 200 V rated value 30 hp	 at 110 V rated value 	1 A
• 1100 V tated value 0.1 A context reliability daudilary contacts 1 faulty switching per 100 million (17 V, 1 mA) VulcidsAratings 06 A • at 800 V tated value 01 hp • at 800 V tated value 10 hp • at 800 V tated value 10 hp • at 800 V tated value 20 hp • at 800 V tated value 30 hp • at 8202050 V rated value 30 hp • at 8202050 V rated value 75 hp - at 8202050 V rated value 76 hp - at 82000 V rated value 76 hp - at 90 v rated value 90 v rated value - at 78 hp - <t< td=""><td> at 125 V rated value </td><td>0.9 A</td></t<>	 at 125 V rated value 	0.9 A
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mk) UNESS relievs 1 faulty switching per 100 million (17 V, 1 mk) • al 460 V rated value 98 A • al 460 V rated value 98 A • al 460 V rated value 77 A yielded mechanical performance [bp] • or single-phase AC motor • - al 110/120 V ratel value 20 hp • - al 200280 V ratel value 30 hp al 200280 V ratel value 30 hp al 200280 V ratel value 30 hp al 200280 V ratel value 76 hp al 40480 V ratel value 76 hp	 at 220 V rated value 	0.3 A
ULCB3 values 00 A ••••••••••••••••••••••••••••••••••••	• at 600 V rated value	0.1 A
full-dat current (FLA) for 3-phase AC motor 00 • at 800 V made value 00 A • at 800 V made value 00 A • of relige-phase AC motor 01 hp • - at 1101/20 V rade value 20 hp • of relige-phase AC motor 00 hp at 200208 V mate value 20 hp • of relige-phase AC motor 00 hp at 200208 V rate value 30 hp at 404480 V rade value 30 hp at 404480 V rade value 75 hp at 404480 V rade value 76 hp with type of coordination 1 required 96 '10 A (800 V, 100 kA), akt. 100 A (690 V, 100 kA), BS88: 200 A (415 V, 80 Kp with type of assignment 2 required 96 '10 A (800 V, 100 kA), akt. 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 Kp <t< td=""><td>contact reliability of auxiliary contacts</td><td>1 faulty switching per 100 million (17 V, 1 mA)</td></t<>	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
• at 480 V rated value 96 Å • at 680 V rated value 77 Å • Jor angle-phase AC motor 10 hp • at 230 V rated value 20 hp • for angle-phase AC motor 30 hp - at 230 V rated value 30 hp - at 230 V rated value 30 hp - at 230230 V rated value 30 hp - at 230230 V rated value 30 hp - at 230230 V rated value 75 hp - at 257600 V rated value 75 hp - at 57500 V rated value 6 handbristle: 10 Å: 0.4 kA of the auxiliary concut broaker for short-circuit protection 6 chancteristle: 10 Å: 0.4 kA of the auxiliary concut broaker for short-circuit protection of the auxiliary switch required 9 ch 30 A (690 V, 100 kA), adk: 100 A (690 V, 100 kA), B586: 200 A (415 V, 80 A) A (UL/CSA ratings	
• at 480 V rated value 96 Å • at 680 V rated value 77 Å • Jor angle-phase AC motor 10 hp • at 230 V rated value 20 hp • for angle-phase AC motor 30 hp - at 230 V rated value 30 hp - at 230 V rated value 30 hp - at 230230 V rated value 30 hp - at 230230 V rated value 30 hp - at 230230 V rated value 75 hp - at 257600 V rated value 75 hp - at 57500 V rated value 6 handbristle: 10 Å: 0.4 kA of the auxiliary concut broaker for short-circuit protection 6 chancteristle: 10 Å: 0.4 kA of the auxiliary concut broaker for short-circuit protection of the auxiliary switch required 9 ch 30 A (690 V, 100 kA), adk: 100 A (690 V, 100 kA), B586: 200 A (415 V, 80 A) A (full-load current (FLA) for 3-phase AC motor	
yielded mechanical parformance (bp) of an single-phase AC motor 	at 480 V rated value	96 A
for single-phase AC motor - at 110/120 V rated value - at 10/120 V rated value - at 20/280 V rated value - at 64/080 V rated value - at 575680 V rated value - at 675680 V rated value - at 7440 V	 at 600 V rated value 	77 A
for single-phase AC motor - at 110/120 V rated value - at 10/120 V rated value - at 20/280 V rated value - at 64/080 V rated value - at 575680 V rated value - at 675680 V rated value - at 7440 V	yielded mechanical performance [hp]	
	for single-phase AC motor	
		10 hp
• for 3-phase AC motor 30 hp at 200208 V rated value 30 hp at 460480 V rated value 30 hp at 360480 V rated value 75 hp at 360480 V rated value 75 hp contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection C characteristic: 10 A; 0.4 kA design of the minitary circuit up to 230 V C characteristic: 10 A; 0.4 kA design of the rule link - • for short-circuit protection of the main circuit gc: 250 A (680 V, 100 kA), akt: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) - with type of coordination 1 required gc: 100 A (680 V, 100 kA), akt: 100 A (690 V, 100 kA), BS88: 126 A (415 V, 80 kA) - with type of assignment 2 required gc: 100 A (690 V, 100 kA), akt: 100 A (690 V, 100 kA), BS88: 126 A (415 V, 80 kA) isstallatiod/u mounting/ dimensions +/.180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/.250 on vertical mounting surface; can be tilted forward and backward by +/.250 on vertical mounting surface; can be tilted forward and backward by +/.250 on vertical mounting surface; can be tilted forward and backward by +/.180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/.180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/.180° rotation possible on vertical mounting surface; bit is into -	— at 230 V rated value	
	-	30 hp
contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection Characteristic: 10 A; 0.4 kA of the auxiliary circuit to to 230 V Characteristic: 10 A; 0.4 kA design of the fuse link - - 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 coordination 1 required gG: 100 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) - with type of assignment 2 required gG: 100 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) - with type of assignment 2 required gG: 100 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) - with type of assignment 2 required gG: 100 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) - with type of assignment 2 required gG: 100 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) - with type of assignment 2 required gG: 100 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) fastening method side-by-side mounting +/-180 rotation possible on vertical mounting surface: fastening method side-by-side mounting Yes fastening method side-by-side mounting Yes fastening method 100 mm		
Short-circuit protection C characteristic: 10 A; 0.4 kA design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit to 12 30 V C characteristic: 10 A; 0.4 kA 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 C characteristic: 10 A; 0.4 kA of short-circuit protection of the auxiliary switch required gC : 250 A (690 V, 100 kA), ak: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 (A) of or short-circuit protection of the auxiliary switch required gC : 160 A (690 V, 100 kA), ak: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 (A) 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 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; fastening method with ide-by-side mounting Yes fastening method 50 mm - otowards 10 mm - otowards 0 mm - otowards <td></td> <td></td>		
design of the ministure circuit protection of the auxiliary circuit up to 230 V C characteristic: 10 A; 0.4 kA design of the fuse link for short-circuit protection of the main circuit 		
of the auxiliary circuit up to 230 V design of the fuse link for short-circuit protection of the main circuit 		
	of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA
with type of coordination 1 required gG: 250 A (690 V, 100 kA), abf. 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) with type of assignment 2 required gG: 160 A (690 V, 100 kA), abf. 100 A (690 V, 100 kA), BS88: 125 A (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 tilted forward and backward by +/22.5° on vertical mounting surface; can be tilted forward and backward by +/22.5° on vertical mounting surface; fastening method side-by-side mounting Yes fastening method side-by-side mounting Yes fastening method side-by-side mounting Yes fastening method side-by-side mounting 140 mm width 70 mm depth 152 mm required spacing - • oftwards 20 mm - upwards 10 mm - downwards 0 mm - oftwards 20 mm - upwards 10 mm - oftwards 20 mm - upwards 10 mm - upwards 10 mm - oftwards 20 mm - upwards 10 mm <t< td=""><td>-</td><td></td></t<>	-	
kA) KA) - with type of assignment 2 required gG: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (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 tilted forward and backward by +/-22.5° on vertical mounting surface fastening method +/180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting to 101 NE 60715 height 140 mm width 70 mm depth 152 mm required spacing - • with side by-side mounting - - forwards 20 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - owards 20 mm - owards 10 mm - at the side 0 mm - at the side 10 mm - downwards 10 mm - at the side 10 mm - owards 20 mm - at the side 10 mm		
kA) 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 tilted forward and backward by +/>22.5° on vertical mounting surface fastening method side-by-side mounting Yes fastening method screw and snap-on mounting on 35 mm DIN rail according to DIN EN 60715 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 - at the side 0 mm - orwards 20 mm - upwards 10 mm - at the side 0 mm - downwards 10 mm - downwards <	 — with type of coordination 1 required 	
Installation/mounting/dimensions +/180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; fastening method backward by +/-22.5° on vertical mounting surface; fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 140 mm width 70 mm depth 152 mm required spacing • • with side-by-side mounting 20 mm - forwards 20 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - of orgrounded parts 20 mm - forwards 20 mm - downwards 10 mm - at the side 0 mm - downwards 10 mm <td>— with type of assignment 2 required</td> <td></td>	— with type of assignment 2 required	
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 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 forward and backward bill for mark and backward by +/-22.5° on manue. - forwards - at the side 10 mm - downwards - at the side 10 mm -		gG: 10 A (500 V, 1 kA)
backward by +/- 22.5° on vertical mounting surface fastening method Yes fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 140 mm width 70 mm depth 152 mm required spacing • • with side-by-side mounting - - forwards 20 mm - upwards 10 mm - downwards 0 mm - at the side 0 mm - ofrwards 10 mm - at the side 0 mm - ownwards 10 mm - at the side 10 mm - ownwards 10 mm - downwards 10 mm - oth side	Installation/ mounting/ dimensions	
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 140 mm width 70 mm depth 152 mm required spacing • with side-by-side mounting - forwards 20 mm - upwards 10 mm - downwards 0 mm - at the side 0 mm - forwards 20 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 10 mm - downwards 10 mm - at the side 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm <tr< td=""><td>mounting position</td><td></td></tr<>	mounting position	
height 140 mm width 70 mm depth 152 mm required spacing • with side-by-side mounting - forwards 20 mm - upwards 10 mm - downwards 0 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 - forwards 10 mm - at the side 10 mm - downwards 10 mm - at the side 10 mm <td>fastening method side-by-side mounting</td> <td>Yes</td>	fastening method side-by-side mounting	Yes
width 70 mm depth 152 mm required spacing 152 mm • with side-by-side mounting - - forwards 20 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm - for younds parts 20 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 10 mm - downwards 10 mm - at the side 10 mm	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
depth 152 mm required spacing • with side-by-side mounting - forwards 20 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm • for grounded parts 0 mm - at the side 0 mm - forwards 20 mm - at the side 0 mm - at the side 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 20 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - at the side 10 mm - at the side 10 mm - at the side 10 mm - downwards 10 mm - at the side	height	140 mm
required spacing • with side-by-side mounting - forwards 20 mm - upwards 10 mm - downwards 10 mm - downwards 0 mm - downwards 0 mm - downwards 0 mm - at the side 0 mm - forwards 20 mm - forwards 20 mm - forwards 20 mm - upwards 10 mm - at the side 10 mm - at the side 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm id outnet circuit screw-type terminals <td>width</td> <td>70 mm</td>	width	70 mm
• with side-by-side mounting 20 mm - forwards 20 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm • for grounded parts 20 mm - forwards 20 mm - forwards 20 mm - at the side 0 mm - at the side 10 mm - at the side 10 mm - downwards 10 mm - for live parts 20 mm - upwards 10 mm - forwards 10 mm - downwards 50 mm - at the side 50 mm	depth	152 mm
forwards20 mm upwards10 mm downwards10 mm at the side0 mm at the side0 mm forwards20 mm forwards20 mm upwards10 mm at the side10 mm at the side10 mm downwards10 mm downwards10 mm downwards10 mm forwards20 mm downwards10 mm forwards20 mm upwards10 mm downwards10 mm downwards10 mm downwards10 mm downwards10 mm forwards10 mm downwards10 mm downwards5crew-type terminals of for auxiliary and control circuitscrew-type terminals of or auxiliary contactsScrew-type terminals of magnet coilScrew-type terminals of magnet coilScrew-type terminals	required spacing	
	 with side-by-side mounting 	
downwards10 mm- at the side0 mm• for grounded parts20 mm- forwards20 mm- upwards10 mm- at the side10 mm- at the side10 mm- downwards10 mm- forwards20 mm- of nowards10 mm- odwnwards10 mm- forwards20 mm- forwards20 mm- onwards10 mm- forwards20 mm- upwards10 mm- odwnwards10 mm- odwnwards10 mm- forwards10 mm- odwnwards10 mm- forwards10 mm- of onwards10 mm- of onwards10 mm- of onwards10 mm- of onwards5 crew-type terminals- of electrical connectionscrew-type terminals- for auxiliary and control circuitscrew-type terminals- of magnet coilScrew-type terminals- of magnet coilScrew-type terminals	— forwards	20 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- forwards10 mm- forwards10 mm- at the side10 mm- at the side5 crew-type terminals- for auxiliary and control circuitscrew-type terminals• of magnet coilScrew-type terminals• of magnet coilScrew-type terminals• of magnet coilScrew-type terminals	— upwards	10 mm
• for grounded parts 20 mm - forwards 20 mm - upwards 10 mm - at the side 10 mm - downwards 10 mm - downwards 20 mm - for live parts - - forwards 20 mm - forwards 20 mm - forwards 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm - at contaction screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals • of magnet coil Screw-type terminals	— downwards	10 mm
• for grounded parts20 mm- forwards20 mm- upwards10 mm- at the side10 mm- downwards10 mm- downwards20 mm• for live parts20 mm- forwards20 mm- upwards10 mm- downwards10 mm- downwardsscrew-type terminals- of the sidescrew-type terminals- for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• of magnet coilScrew-type terminals• of magnet coilScrew-type terminals	— at the side	0 mm
- forwards20 mm- upwards10 mm- at the side10 mm- downwards10 mm- for live parts20 mm- forwards20 mm- forwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- at the side10 mm- at the sidescrew-type terminalstype of electrical connectionscrew-type terminals• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sectionsScrew-type terminals		
upwards10 mm- at the side10 mm- downwards10 mm- downwards20 mm- forwards20 mm- upwards10 mm- downwards10 mm- at the side10 mm- of main current circuitscrew-type terminals- for auxiliary and control circuitscrew-type terminals- at contactor for auxiliary contactsScrew-type terminals- of magnet coilScrew-type terminals- of magnet coilScrew-type terminals- of magnet coilScrew-type terminals	5	20 mm
- a the side10 mm- downwards10 mm• for live parts forwards20 mm- upwards10 mm- downwards10 mm- a the side10 mm- a the side10 mmconnections/ Terminals10 mmtype of electrical connectionscrew-type terminals• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sectionsScrew-type terminals		
downwards10 mm• for live parts20 mm forwards20 mm upwards10 mm downwards10 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• of magnet coilScrew-type terminals• type of connectable conductor cross-sectionsScrew-type terminals	•	
• for live parts 20 mm - forwards 20 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm Connections/ Terminals 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 • of magnet coil Screw-type terminals		
- forwards20 mm- upwards10 mm- downwards10 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• of magnet coilScrew-type terminals• type of connectable conductor cross-sectionsScrew-type terminals		
upwards10 mm downwards10 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• of magnet coilScrew-type terminalstype of connectable conductor cross-sectionsScrew-type terminals		20 mm
downwards 10 mm at the side 10 mm Connections/ Terminals 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 • of magnet coil Screw-type terminals type of connectable conductor cross-sections Screw-type terminals		
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• of magnet coilScrew-type terminalstype of connectable conductor cross-sectionsScrew-type terminals		
Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections Screw-type terminals		
type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections 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 • of magnet coil Screw-type terminals type of connectable conductor cross-sections Screw-type terminals		
for auxiliary and control circuit screw-type terminals at contactor for auxiliary contacts Screw-type terminals of magnet coil Screw-type terminals type of connectable conductor cross-sections		
• at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections Screw-type terminals		
• of magnet coil Screw-type terminals type of connectable conductor cross-sections Screw-type terminals	-	
type of connectable conductor cross-sections	-	
	· · · · · · · · · · · · · · · · · · ·	Screw-type terminals
for main contacts		
	for main contacts	

2x (10 1/0), 1x (10 2) r main contacts 2.5 16 mm ² 6 70 mm ² sing 2.5 50 mm ² r auxiliary contacts 0.5 2.5 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² ctions 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) ccessing 2x (20 16), 2x (18 14) ductor cross 10 2 10 2 20 14 7-4-1 Yes rFF Yes FF 20 a Yes 100 000 xing to SN 31920 100 000 xcording to SN 100 FIT scarsary Yes 19-2 necessary Yes 19-2 necessary Yes 19-2 necessary Yes		
r main contacts 2.5 16 mm ² sing 2.5 50 mm ² sing 2.5 50 mm ² r a uxiliary contacts 0.5 2.5 mm ² observed 0.5 2.5 mm ² ctions 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ²) ccessing 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ²) ccessing 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) ccessing 2x (20 16), 2x (18 14) ductor cross 10 2 10 2 20 14 Yes FF Yes FF Yes Yes Yes N 31920 40 % SN 31920 1000 000 ccording to SN 100 FIT Bez 19-2 necessary Yes 19-2 necessary Yes IP20	 finely stranded with core end processing 	2x (2.5 35 mm²), 1x (2.5 50 mm²)
2.5 16 mm² 6 70 mm² 2.5 50 mm² auxiliary contacts 0.5 2.5 mm² sing 0.5 2.5 mm² ctions 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (2.0 1.5 mm²), 2x (0.75 2.5 mm²) 2x (2.0 16), 2x (18 14) ductor cross 10 2 20 14 7.4-1 Yes 7.4-1 Yes to IEC 60947-5-1 No Yes FF 20 a Yes SN 31920 73 % ing to SN 31920 1000 000 ccording to SN 100 FIT 8-2 100 FIT 8-2 3 19-2 necessary 100 FIT	 for AWG cables for main contacts 	2x (10 1/0), 1x (10 2)
6 70 mm² sing 2.5 50 mm² r auxiliary contacts 0.5 2.5 mm² sing 0.5 2.5 mm² ctions 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) accessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) accessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) accessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) accessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) accessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) accessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) accessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) accessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) accessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) accessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) accessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) accessing Yes 74-1 Yes FF Yes FF Yes Ing to SN 31920 1000 000 according to SN 100 FIT according to SN 3	connectable conductor cross-section for main contacts	
sing 2.5 50 mm² r auxiliary contacts 0.5 2.5 mm² sing 0.5 2.5 mm² ctions 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) occessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) occessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) occessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) occessing 2x (20 16), 2x (18 14) ductor cross 10 2 20 14 20 14 7.4-1 Yes 7.4-1 Yes FF Yes SiN 31920 73 % ing to SN 31920 1 000 000 ccording to SN 100 FIT Image: Sing to SN 3 IS-2 necessary Yes IS-2 Type A Image: Sing to SC 20529 IP20	• solid	2.5 16 mm ²
auxiliary contacts 0.5 2.5 mm² sing 0.5 2.5 mm² ctions 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) occessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) occessing 2x (20 16), 2x (18 14) ductor cross 10 2 10 2 20 14 7-4-1 Yes FF Yes FF 20 a Yes Yes N 31920 40 % N 31920 40 % SN 31920 1000 000 ccording to SN 100 FIT Sing to SN 31920 1000 FIT 9 to IEC 60529 IP20	stranded	6 70 mm²
0.5 2.5 mm² sing 0.5 2.5 mm² ctions 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) occessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.2 16), 2x (18 14) 2x (20 16), 2x (18 14) ductor cross 10 2 20 14 20 14 FF Yes FF Yes Yes Yes N 31920 40 % Yes 1000 000 ing to SN 31920 1000 000 ing to SN 31920 1000 000 yes 3 I8-2 Type A g to IEC 60529 IP20	 finely stranded with core end processing 	2.5 50 mm ²
sing 0.52.5 mm² ctions 2x (0.51.5 mm²), 2x (0.752.5 mm²) occessing 2x (0.51.5 mm²), 2x (0.752.5 mm²) 2x (2016), 2x (1814) 2x (2016), 2x (1814) ductor cross 102 2014 2014 7-4-1 Yes res 20 a Yes 3 N 31920 1000 000 ing to SN 31920 1000 FIT Scording to SN 100 FIT Be2 Type A Was Type A	connectable conductor cross-section for auxiliary contacts	
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) ductor cross 10 2 20 14 7-4-1 Yes FF Yes 20 a Yes Yes N 31920 40 % SN 31920 73 % ing to SN 31920 100 FIT 8-2 Type A 100 IEC 60529 IP20	 solid or stranded 	0.5 2.5 mm²
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) ductor cross 10 2 20 14 7.4.1 Yes 7.4.1 Yes FF Yes 20 a Yes N 31920 Yob N 31920 1000 000 100 FIT 8-2 Type A 1020 1020 1002 1002 1002 1002 1003 1004 1005 1006 1007 1008 1009 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 1000000 1000000 1000000 10000000	 finely stranded with core end processing 	0.5 2.5 mm²
accessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) ductor cross 10 2 20 14 7.4.1 Yes FF 20 a Yes Ves Ves Ves N 31920 40 % SN 31920 100 FIT 3 19-2 necessary Yes 88-2 Type A IP20	type of connectable conductor cross-sections	
accessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) ductor cross 10 2 20 14 7.4.1 Yes FF 20 a Yes Ves Ves Ves N 31920 40 % SN 31920 100 FIT 3 19-2 necessary Yes 88-2 Type A IP20	 for auxiliary contacts 	
accessing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) ductor cross 10 2 20 14 7.4.1 Yes FF 20 a Yes Ves Ves Ves N 31920 40 % SN 31920 100 FIT 3 19-2 necessary Yes 88-2 Type A IP20	— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
3. 2x (20 16), 2x (18 14) ductor cross 10 2 20 14 20 14 7.4-1 Yes To IEC 60947-5-1 No Yes Yes FF Yes 20 a Yes N 31920 40 % Yes Yes N 31920 73 % ing to SN 31920 1 000 000 xcording to SN 100 FIT 8-2 Type A 18-2 Type A	 finely stranded with core end processing 	
ductor cross 10 2 20 14 7-4-1 Yes 7-4-1 Yes to IEC 60947-5-1 No Yes FF Yes 20 a 20 a Yes 20 a Yes Yes N 31920 40 % SN 31920 73 % ing to SN 31920 1 000 000 ccording to SN 100 FIT 8-2 Type A g to IEC 60529 IP20	 for AWG cables for auxiliary contacts 	
10 2 20 14 7-4-1 Yes to IEC 60947-5-1 No Yes Yes FF Yes 20 a Yes N 31920 40 % SN 31920 73 % ing to SN 31920 1 000 000 scording to SN 100 FIT 8-2 Type A g to IEC 60529 IP20	AWG number as coded connectable conductor cross	
2014 7.4.1 Yes to IEC 60947-5-1 No Yes FF Yes 20 a Yes N 31920 40 % N 31920 73 % ing to SN 31920 1000 000 coording to SN 100 FIT 3 R9-2 necessary Yes 73 %	section	
7-4-1 Yes to IEC 60947-5-1 No Yes Yes FF Yes 20 a Yes Yes Yes Yes <td> for main contacts </td> <td>10 2</td>	 for main contacts 	10 2
to IEC 60947-5-1 No Yes 20 a 20 a 20 a Yes 20 a	 for auxiliary contacts 	20 14
to IEC 60947-5-1 No Yes 20 a 20 a 20 a Yes 20 a	Safety related data	
to IEC 60947-5-1 No Yes 20 a 20 a 20 a Yes 20 a	product function	
to IEC 60947-5-1 No Yes IFF Yes 20 a Yes	 mirror contact according to IEC 60947-4-1 	Yes
Yes IFF Yes 20 a Yes Yes N 31920 40 % SN 31920 73 % ing to SN 31920 1 000 000 ccording to SN 100 FIT 100 FIT 3 18-2 necessary Yes yes 1 1920 1 1920 1 1920 100 FIT 100 FIT 100 FIT 1920 1 1920 1 1920 1 1920 1 1920 1 1920 1 1920 1 1920 1 1920 1 1920 1 1920 1 1920 1	 positively driven operation according to IEC 60947-5-1 	No
20 a Yes N 31920 40 % SN 31920 73 % ing to SN 31920 1 000 000 ccording to SN 100 FIT 3 19-2 necessary Yes Ves Ves	suitable for safety function	Yes
20 a Yes N 31920 40 % SN 31920 73 % ing to SN 31920 1 000 000 ccording to SN 100 FIT 3 19-2 necessary Yes Ves Ves	suitability for use safety-related switching OFF	
Yes 40 % 5N 31920 73 % ing to SN 31920 1 000 000 ccording to SN 100 FIT 3 100 FIT 3 19-2 necessary Yes 8-2 Type A 1920 IP20 IP20	service life maximum	
N 31920 40 % SN 31920 73 % ing to SN 31920 1 000 000 cording to SN 100 FIT 3 100 FIT 19-2 necessary Yes 08-2 Type A 100 FIC 60529 IP20	test wear-related service life necessary	
SN 31920 73 % ing to SN 31920 1 000 000 ccording to SN 100 FIT 3	proportion of dangerous failures	
SN 31920 73 % ing to SN 31920 1 000 000 ccording to SN 100 FIT 3		40.9/
ing to SN 31920 1 000 000 scording to SN 100 FIT 3 3 I9-2 necessary Yes V8-2 Type A IP20 IP20	with low demand rate according to SN 31920	
100 FIT 3 19-2 necessary Yes 08-2 Type A 100 FIT 100 FIT	with high demand rate according to SN 31920	
3 19-2 necessary Yes 18-2 Type A 19 to IEC 60529 IP20	B10 value with high demand rate according to SN 31920	
I9-2 necessary Yes 08-2 Type A g to IEC 60529 IP20	failure rate [FIT] with low demand rate according to SN 31920	100 FT
I9-2 necessary Yes 08-2 Type A g to IEC 60529 IP20	ISO 13849	
I9-2 necessary Yes 08-2 Type A g to IEC 60529 IP20	device type according to ISO 13849-1	3
B-2 Type A g to IEC 60529 IP20	overdimensioning according to ISO 13849-2 necessary	
g to IEC 60529 IP20		
g to IEC 60529 IP20		Type A
		Type A
to IEC 60529 Inger-sale, for vertical contact from the front		
		tinger-safe, for vertical contact from the front
	General Product Approval	
	safety device type according to IEC 61508-2 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Approvals Certificates General Product Approval	IP20 finger-safe, for vertical contact from the front
	General Product Approval EMV Test Certifica	tes Marine / Shipping
Test Certificates Marine / Shipping	ERE REAL	



Dangerous goods Environment

Transport Information

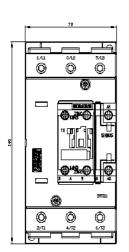


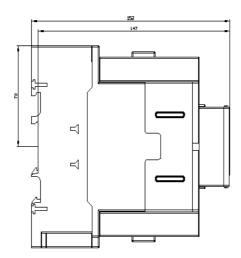
Environmental Confirmations

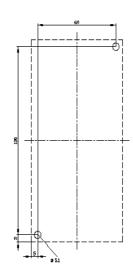
Further information

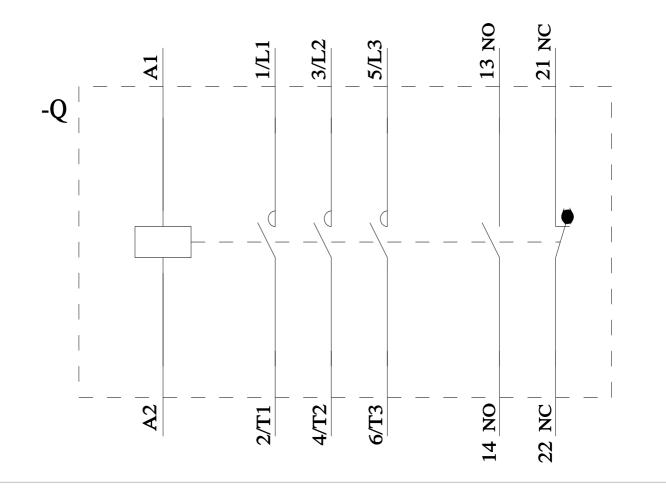
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2046-1AL20 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-1AL20 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AL20 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2046-1AL20&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AL20/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-1AL20&objecttype=14&gridview=view1









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