SIEMENS

Data sheet

3RT2045-3NB30

power contactor, AC-3 80 A, 37 kW / 400 V 1 NO + 1 NC, 20-33 V AC/DC 3-pole, 3 NO, Size S3 Spring-type terminal integrated varistor



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 	15.9 W
 at AC in hot operating state per pole 	5.3 W
power loss [W] for rated value of the current without load current share typical	3.5 W
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 60947-1 	690 V

protection class IP		
• on the front	IP20	
• of the terminal	IP00	
shock resistance at rectangular impulse		
• at AC	6.7 g / 5 ms, 4.0 g / 10 ms	
• at DC	6.7 g / 5 ms, 4.0 g / 10 ms	
shock resistance with sine pulse		
• at AC	10.6 g / 5 ms, 6.3 g / 10 ms	
● at DC	10.6 g / 5 ms, 6.3 g / 10 ms	
mechanical service life (switching cycles)		
 of contactor typical 	10 000 000	
 of the contactor with added electronics- 	5 000 000	
compatible auxiliary switch block typical		
 of the contactor with added auxiliary switch 	10 000 000	
block typical		
reference code acc. to DIN EN 81346-2	Q	
Ambient conditions		
 installation altitude at height above sea level 	2 000 m	
maximum		
ambient temperature		
 during operation 	-25 +60 °C	
during storage	-55 +80 °C	
Main circuit		
number of poles for main current circuit	3	
	3 3	
number of poles for main current circuit		
number of poles for main current circuit number of NO contacts for main contacts		
number of poles for main current circuit number of NO contacts for main contacts operating voltage	3	
number of poles for main current circuit number of NO contacts for main contacts operating voltage • at AC-3 rated value maximum	3	
number of poles for main current circuit number of NO contacts for main contacts operating voltage • at AC-3 rated value maximum operating current	3	
number of poles for main current circuit number of NO contacts for main contacts operating voltage • at AC-3 rated value maximum operating current • at AC-1 at 400 V	3 1 000 V	
number of poles for main current circuit number of NO contacts for main contacts operating voltage • at AC-3 rated value maximum operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value	3 1 000 V	
number of poles for main current circuit number of NO contacts for main contacts operating voltage • at AC-3 rated value maximum operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1	3 1 000 V 125 A	
number of poles for main current circuit number of NO contacts for main contacts operating voltage • at AC-3 rated value maximum operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C	3 1 000 V 125 A	
number of poles for main current circuit number of NO contacts for main contacts operating voltage • at AC-3 rated value maximum operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value rated value	3 1 000 V 125 A 125 A	
number of poles for main current circuit number of NO contacts for main contacts operating voltage • at AC-3 rated value maximum operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C	3 1 000 V 125 A 125 A	
number of poles for main current circuit number of NO contacts for main contacts operating voltage • at AC-3 rated value maximum operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 40 °C	3 1 000 V 125 A 125 A 105 A	
number of poles for main current circuit number of NO contacts for main contacts operating voltage • at AC-3 rated value maximum operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 40 °C	3 1 000 V 125 A 125 A 105 A 60 A	
number of poles for main current circuit number of NO contacts for main contacts operating voltage • at AC-3 rated value maximum operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C	3 1 000 V 125 A 125 A 105 A 60 A	
number of poles for main current circuit number of NO contacts for main contacts operating voltage • at AC-3 rated value maximum operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value • at AC-3	3 1 000 V 125 A 125 A 105 A 60 A 50 A	

— at 690 V rated value	58 A
• at AC-4 at 400 V rated value	66 A
• at AC-5a up to 690 V rated value	110 A
• at AC-5b up to 400 V rated value	80 A
● at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	80 A
— up to 400 V for current peak value n=20 rated value	80 A
— up to 500 V for current peak value n=20 rated value	80 A
— up to 690 V for current peak value n=20 rated value	58 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	54 A
— up to 400 V for current peak value n=30 rated value	54 A
— up to 500 V for current peak value n=30 rated value	54 A
— up to 690 V for current peak value n=30 rated value	54 A
minimum cross-section in main circuit	
minimum cross-section in main circuitat maximum AC-1 rated value	50 mm²
	50 mm²
• at maximum AC-1 rated value	50 mm²
• at maximum AC-1 rated value operating current for approx. 200000 operating	50 mm² 34 A
• at maximum AC-1 rated value operating current for approx. 200000 operating cycles at AC-4	
 at maximum AC-1 rated value operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value 	34 A
 at maximum AC-1 rated value operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value 	34 A
at maximum AC-1 rated value operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current	34 A
 at maximum AC-1 rated value operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating current at 1 current path at DC-1 	34 A 24 A
 at maximum AC-1 rated value operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating current at 1 current path at DC-1 at 24 V rated value 	34 A 24 A 100 A
 at maximum AC-1 rated value operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating current at 1 current path at DC-1 at 24 V rated value at 110 V rated value 	34 A 24 A 100 A 9 A
 at maximum AC-1 rated value operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value at 690 V rated value operating current at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value 	34 A 24 A 100 A 9 A 2 A
 at maximum AC-1 rated value operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating current at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 1220 V rated value at 440 V rated value 	34 A 24 A 100 A 9 A 2 A 0.6 A
 at maximum AC-1 rated value operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value at 690 V rated value operating current at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value 	34 A 24 A 100 A 9 A 2 A 0.6 A
 at maximum AC-1 rated value operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating current at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 	34 A 24 A 100 A 9 A 2 A 0.6 A 0.4 A
 at maximum AC-1 rated value operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value at 690 V rated value operating current at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 440 V rated value 	34 A 24 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A
 at maximum AC-1 rated value operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 600 V rated value at 600 V rated value at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 10 V rated value at 600 V rated value at 10 V rated value at 600 V rated value at 10 V rated value at 10 V rated value 	34 A 24 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A
 at maximum AC-1 rated value operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating current at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 440 V rated value at 100 V rated value at 440 V rated value at 20 V rated value at 20 V rated value 	34 A 24 A
 at maximum AC-1 rated value operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value at 690 V rated value operating current at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 220 V rated value at 24 V rated value at 24 V rated value at 600 V rated value at 440 V rated value at 24 V rated value 	34 A 24 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A 100 A 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
operating current	
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	40 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 	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	7 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	100 A
— at 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	37 kW
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	17.9 kW
• at 690 V rated value	21.8 kW
operating apparent output at AC-6a	
 up to 230 V for current peak value n=20 rated value 	31 kV·A
 up to 400 V for current peak value n=20 rated value 	55 kV·A
 up to 500 V for current peak value n=20 rated value 	69 kV·A

 up to 690 V for current peak value n=20 rated value 	69 kV·A
operating apparent output at AC-6a	
 up to 230 V for current peak value n=30 rated value 	21.5 kV·A
 up to 400 V for current peak value n=30 rated value 	37.4 kV·A
 up to 500 V for current peak value n=30 rated value 	46.7 kV·A
 up to 690 V for current peak value n=30 rated value 	64.5 kV·A
short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	1 500 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	1 186 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	851 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	538 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	423 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	1 000 1/h
• at DC	1 000 1/h
operating frequency	
• at AC-1 maximum	900 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	20 33 V
• at 60 Hz rated value	20 33 V
control supply voltage at DC	
rated value	20 33 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
• initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value of magnet coil at AC	

	0.8 1.1
• at 50 Hz	
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	6.5 A
duration of inrush current peak	50 µs
starting current average value	3.2 A
Peak starting current	6.5 A
Duration of starting current	150 ms
Holding current average value	75 mA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	151 V·A
• at 60 Hz	151 V·A
apparent holding power of magnet coil at AC	
• at 50 Hz	3.5 V·A
● at 60 Hz	3.5 V·A
closing power of magnet coil at DC	76 W
holding power of magnet coil at DC	2.7 W
closing delay	
• at DC	50 70 ms
opening delay	
• at DC	38 57 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
control version of the switch operating mechanism Auxiliary circuit	Standard A1 - A2
	Standard A1 - A2
Auxiliary circuit	Standard A1 - A2
Auxiliary circuit number of NC contacts for auxiliary contacts	
Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact	
Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts	1
Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact	1
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operating current at AC-12 maximum	1
Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operating current at AC-12 maximum • operating current at AC-15	1 1 10 A
Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operating current at AC-12 maximum operating current at AC-15 • at 230 V rated value	1 1 10 A 6 A
Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operating current at AC-12 maximum operating current at AC-15 • at 230 V rated value • at 400 V rated value	1 1 10 A 6 A 3 A
Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operating current at AC-12 maximum operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	1 1 10 A 6 A 3 A 2 A
Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operating current at AC-12 maximum operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	1 1 10 A 6 A 3 A 2 A
Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operating current at AC-12 maximum operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value	1 1 10 A 6 A 3 A 2 A 1 A
Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operating current at AC-12 maximum operating current at AC-15 • at 230 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A
Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operating current at AC-12 maximum operating current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A
Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operating current at AC-12 maximum operating current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A
Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operating current at AC-12 maximum operating current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 4110 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 3 A 3 A 3 A
Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operating current at AC-12 maximum operating current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A

operating current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)

UL/CSA ratings

02/00/(100)195	
full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	77 A
• at 600 V rated value	62 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	7.5 hp
— at 230 V rated value	15 hp
 for three-phase AC motor 	
— at 200/208 V rated value	25 hp
— at 220/230 V rated value	30 hp
— at 460/480 V rated value	60 hp
— at 575/600 V rated value	60 hp
contact rating of auxiliary contacts according to UL	A600 / P600

Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
 — with type of assignment 2 required 	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)
 for short-circuit protection of the auxiliary switch 	gG: 10 A (500 V, 1 kA)
required	
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be
	tilted forward and backward by +/- 22.5° on vertical mounting
	surface
mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
 side-by-side mounting 	Yes

140 mm

70 mm

152 mm

height

width

depth

required encoding			
required spacing			
• with side-by-side mounting	20		
— forwards	20 mm 10 mm		
— upwards			
— 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		
— 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 current circuit 	spring-loaded terminals		
 at contactor for auxiliary contacts 	Spring-type terminals		
 of magnet coil 	Spring-type terminals		
type of connectable conductor cross-sections			
• for main contacts			
 finely stranded with core end processing 	2x (2.5 35 mm²), 1x (2.5 50 mm²)		
 at AWG conductors for main contacts 	2x (10 1/0), 1x (10 2)		
connectable conductor cross-section for main			
contacts			
• solid	2.5 16 mm ²		
• stranded	6 70 mm²		
 finely stranded with core end processing 	2.5 50 mm ²		
connectable conductor cross-section for auxiliary contacts			
 single or multi-stranded 	0.5 2.5 mm²		
 finely stranded with core end processing 	0.5 2.5 mm²		
 finely stranded without core end processing 	0.5 2.5 mm²		
• type of connectable conductor cross-sections for auxiliary contacts			
— single or multi-stranded	2x (0.5 2.5 mm²)		
— finely stranded with core end processing	2x (0.5 1.5 mm²)		
 finely stranded without core end processing 	2x (0.5 2.5 mm²)		

_		
20 14		
1 000 000		
40 %		
73 %		
100 FIT		
Yes		
No		
20 у		
finger-safe when touched	d vertically from from	nt acc. to IEC 60529
Yes		
		EMC
<u>KC</u>	EAC	RCM
ficates	Marine / Shippi	ing
ertific- Special Test Certi- eport ficate	ALCAN BURE	Lloyd's Register
	ABS	LRS
	other	Railway
	Ounei	· tailfiag
•	1 000 000 40 % 73 % 100 FIT Yes No 20 y finger-safe when touched Yes KC	20 14 1 000 000 40 % 73 % 100 FIT Yes No 20 y finger-safe when touched vertically from from Yes KC EFFE ficates Marine / Shippi ertific- got Special Test Certi- ficate

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2045-3NB30

Cax online generator

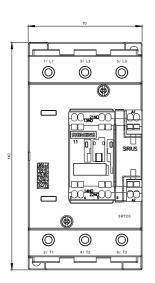
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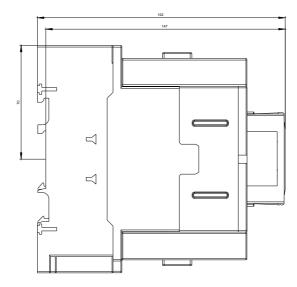
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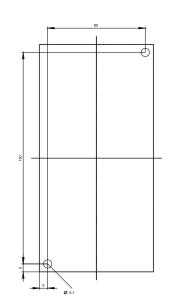
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2045-3NB30&lang=en

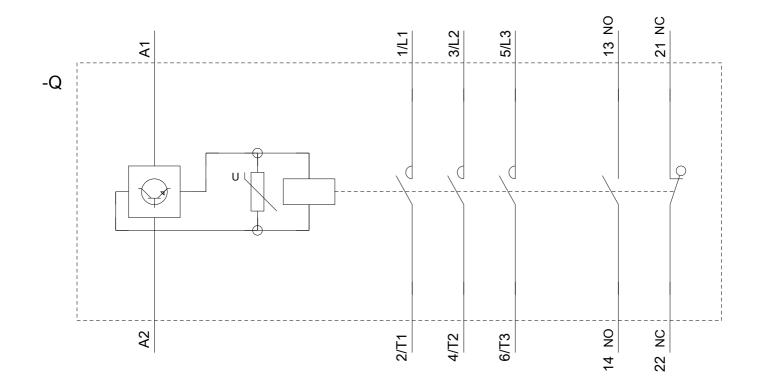
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-3NB30/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2045-3NB30&objecttype=14&gridview=view1









last modified:

09/08/2020