## SIEMENS

## Data sheet

## 3RT2045-1NB30



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 screw terminal integrated varistor

product brand name	SIRIUS			
product designation	Power contactor			
product type designation	3RT2			
General technical data				
size of contactor	S3			
product extension				
<ul> <li>function module for communication</li> </ul>	No			
auxiliary switch	Yes			
power loss [W] for rated value of the current at AC in hot operating state	15.9 W			
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				
<ul> <li>of main circuit rated value</li> </ul>	8 kV			
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV			
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	690 V			
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)				
<ul> <li>of contactor typical</li> </ul>	10 000 000			
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000			
of the contactor with added auxiliary switch block     typical	10 000 000			
reference code acc. to IEC 81346-2	Q			
Ambient conditions				
installation altitude at height above sea level maximum	2 000 m			
<ul> <li>ambient temperature during operation</li> </ul>	-25 +60 °C			
ambient temperature during storage	-55 +80 °C			
Main circuit				
number of poles for main current circuit	3			
number of NO contacts for main contacts	3			



- exercise voltage at AC 2 rated value measure	4 000 \/
operating voltage at AC-3 rated value maximum	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	125 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	125 A
rated value	
— up to 690 V at ambient temperature 60 °C	105 A
rated value	
— up to 1000 V at ambient temperature 40 °C	60 A
rated value	
— up to 1000 V at ambient temperature 60 °C rated value	50 A
• at AC-3	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
• at AC-4 at 400 V rated value	66 A
	110 A
<ul> <li>at AC-5a up to 690 V rated value</li> <li>at AC-5b up to 400 V rated value</li> </ul>	80 A
• at AC-56 up to 400 v Tated value	
<ul> <li>at AC-ba</li> <li>— up to 230 V for current peak value n=20 rated</li> </ul>	80 A
value	
— up to 400 V for current peak value n=20 rated	80 A
value	
<ul> <li>up to 500 V for current peak value n=20 rated</li> </ul>	80 A
value	
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	58 A
• at AC-6a	
	54 A
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	54 A
— up to 400 V for current peak value n=30 rated	54 A
value	
<ul> <li>— up to 500 V for current peak value n=30 rated</li> </ul>	54 A
value	
<ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>	54 A
minimum cross-section in main circuit at maximum AC-1	50 mm²
rated value	
operational current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	34 A
at 690 V rated value	24 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	100 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	10 A
— at 440 V rated value	1.8 A
— at 600 V rated value	1 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	100 A
— at 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				
operational current					
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>					
— 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				
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>					
— 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				
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>					
— 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 400 V rated value     at 690 V rated value	21.8 kW				
operating apparent power at AC-6a					
• up to 230 V for current peak value n=20 rated value	31 kV·A				
• up to 400 V for current peak value n=20 rated value	55 kV·A				
<ul> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	69 kV·A				
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	69 kV·A				
operating apparent power 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					
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	1 500 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	1 186 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	851 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	538 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	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				
<ul> <li>at AC-3 maximum</li> </ul>	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					
<ul> <li>initial value</li> </ul>	0.8				
<ul> <li>full-scale value</li> </ul>	1.1				
operating range factor control supply voltage rated value of magnet coil at AC					
• at 50 Hz	0.8 1.1				
• at 60 Hz	0.8 1.1				
design of the surge suppressor	with varistor				
inrush current peak	6.5 A				
duration of inrush current peak	50 µs				
locked-rotor current mean value	3.2 A				
locked-rotor current peak	6.5 A				
duration of locked-rotor current	150 ms				
holding current mean 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					
-1 00	38 57 ms				
• at DC	36 57 IIIS				
arcing time	10 20 ms				
arcing time	10 20 ms				
arcing time control version of the switch operating mechanism	10 20 ms				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts         instantaneous contact         number of NO contacts for auxiliary contacts         instantaneous contact         number of NO contacts for auxiliary contacts         instantaneous contact	10 20 ms Standard A1 - A2 1 1				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum	10 20 ms Standard A1 - A2 1				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15	10 20 ms Standard A1 - A2 1 1 10 A				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 6 A				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational 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 24 V rated value         • at 24 V rated value         • at 48 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 48 V rated value         • at 48 V rated value         • at 60 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational 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 400 V rated value         • at 690 V rated value         • at 600 V rated value         • at 24 V rated value         • at 48 V rated value         • at 400 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value         • at 110 V rated value         • at 125 V rated value	10 20 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 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 110 V rated value         • at 125 V rated value         • at 220 V rated value	10 20 ms Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 48 V rated value         • at 400 V rated value         • at 24 V rated value         • at 25 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value	10 20 ms Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 48 V rated value         • at 48 V rated value         • at 40 V rated value         • at 220 V rated value         • at 220 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 200 V rated value         • at 600 V rated value         • at 600 V rated value	10 20 ms Standard A1 - A2 1 1 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 10 1				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 40 V rated value         • at 25 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value         • at 600 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value	10 20 ms Standard A1 - A2 1 1 1 1 1 1 1 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 10 1				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 40 V rated value         • at 24 V rated value         • at 400 V rated value         • at 24 V rated value         • at 250 V rated value         • at 24 V rated value         • at 25 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value         • at 220 V rated value         • at 24 V rated value         • at 48 V rated value	10 20 ms Standard A1 - A2 1 1 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 10 1				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational 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         • at 690 V rated value         • at 24 V rated value         • at 60 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value         • at 600 V rated value         • at 48 V rated value         • at 24 V rated value         • at 48 V rated value	10 20 ms Standard A1 - A2 1 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 10 A 1				
arcing time         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational 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         • at 60 V rated value         • at 40 V rated value         • at 24 V rated value         • at 10 V rated value         • at 10 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value         • at 48 V rated value         • at 48 V rated value         • at 420 V rated value         • at 420 V rated value         • at 420 V rated value         • at 60 V rated value         • at 60 V rated value         • at 60 V rated value         • at 48 V rated value	10 20 ms Standard A1 - A2 1 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 6 A 3 A 2 A 1 A 10				

● at 600 V rated value	0.1 A			
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
• at 480 V rated value	77 A			
at 600 V rated value	62 A			
yielded mechanical performance [hp]				
<ul> <li>for single-phase AC motor</li> </ul>				
— at 110/120 V rated value	7.5 hp			
— at 230 V rated value	15 hp			
<ul> <li>for 3-phase AC motor</li> </ul>				
— 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				
<ul> <li>for short-circuit protection of the main circuit</li> </ul>				
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)			
— with type of assignment 2 required	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)			
Installation/ mounting/ dimensions				
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted			
fastening method	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail			
	according to DIN EN 60715 Yes			
side-by-side mounting     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			
<ul> <li>for grounded parts</li> </ul>				
— forwards	20 mm			
— upwards	10 mm			
— at the side	10 mm			
— downwards	10 mm			
<ul> <li>for live parts</li> </ul>				
— 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			
<ul> <li>for auxiliary and control circuit</li> </ul>	scrow type terminals			
	screw-type terminals			
at contactor for auxiliary contacts	Screw-type terminals			
of magnet coil				
of magnet coil     type of connectable conductor cross-sections	Screw-type terminals			
of magnet coil	Screw-type terminals			



<ul> <li>at AWG cables for main contacts</li> </ul>		2x (10 1/0), 1x (10 2)				
connectable conductor cross-section fo	or main					
• solid		2.5 16 mr	n²			
stranded		6 70 mm²				
<ul> <li>finely stranded with core end proces</li> </ul>	ssing	2.5 50 mr	n²			
connectable conductor cross-section fo						
<ul> <li>solid or stranded</li> </ul>		0.5 2.5 m	0.5 2.5 mm <sup>2</sup>			
<ul> <li>finely stranded with core end proces</li> </ul>	ssing	0.5 2.5 m	m²			
type of connectable conductor cross-se	ections					
<ul> <li>for auxiliary contacts</li> </ul>						
— solid or stranded		2x (0,5 1,	5 mm²), 2x (0,	75 2,5 mm²)		
<ul> <li>finely stranded with core end p</li> </ul>	rocessing	2x (0.5 1.	5 mm²), 2x (0.	75 2.5 mm²)		
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	6	2x (20 16	), 2x (18 14)	)		
<ul> <li>AWG number as coded connectable cross section for main contacts</li> </ul>	e conductor	10 2				
<ul> <li>AWG number as coded connectable cross section for auxiliary contacts</li> </ul>	e conductor	20 14				
afety related data						
B10 value with high demand rate acc. to S	SN 31920	1 000 000				
proportion of dangerous failures						
• with low demand rate acc. to SN 31	920	40 %				
<ul> <li>with high demand rate acc. to SN 31</li> </ul>	1920	73 %				
ailure rate [FIT] with low demand rate acc	c. to SN 31920	100 FIT				
product function						
• mirror contact acc. to IEC 60947-4-1	1	Yes				
<ul> <li>positively driven operation acc. to IE</li> </ul>	EC 60947-5-1	No				
Г1 value for proof test interval or servic EC 61508	ce life acc. to	20 y				
protection class IP on the front acc. to	IEC 60529	IP20				
touch protection on the front acc. to IE	C 60529	finger-safe, for vertical contact from the front				
suitability for use safety-related switching	OFF	Yes				
ertificates/ approvals						
General Product Approval					EMC	
			<u>KC</u>	EHC	RCM	
Declaration of Conformity	Test Certifica	ates		Marine / Shipping		
Miscellaneous EG-Konf.	<u>Type Tes</u> <u>Certificates/7</u> <u>Report</u>		<u>pecial Test</u> <u>Certificate</u>	ABS	Lloyd's Register urs	
Marine / Shipping				other		
PRS EINA			DNV-GL	<u>Confirmation</u>	<u>Confirmation</u>	
Railway						
		12 10 2020		Subject to change without noti		

## 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=3RT2045-1NB30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2045-1NB30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1NB30

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

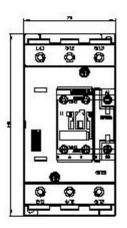
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2045-1NB30&lang=en

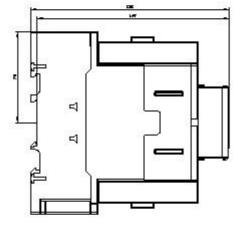
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

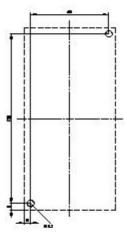
https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1NB30/char

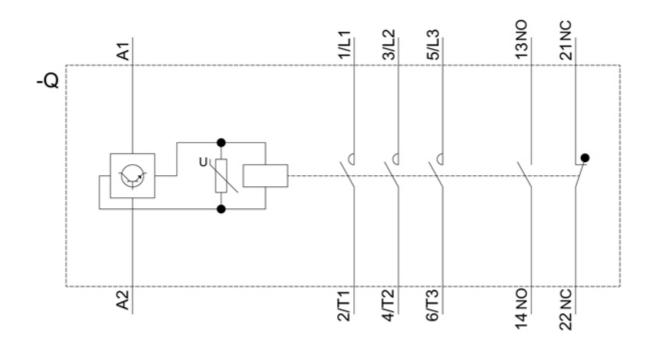
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2045-1NB30&objecttype=14&gridview=view1









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