SIEMENS

Data sheet

3RT2046-1NB30



power contactor, AC-3e/AC-3, 95 A, 45 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3

199	
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 	1.8 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
• at DC	6.7 g / 5 ms, 4g / 10 ms
shock resistance with sine pulse	
• at AC	16.3g / 5 ms, 10.g / 10 ms
• at DC	10.6 g / 5 ms, 6.3 g / 10 ms
mechanical service life (operating cycles)	
 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
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Weight	1.834 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	267 kg
Global Warming Potential [CO2 eq] during manufacturing	9.35 kg
Global Warming Potential [CO2 eq] during manafacturing Global Warming Potential [CO2 eq] during operation	259 kg
Global Warming Potential [CO2 eq] after end of life	
Aain circuit	1.00 Kg
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	130 A
• at AC-1	
— 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	100.4
— 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
	0.6 A
— at 440 V rated value — at 600 V rated value	0.4 A

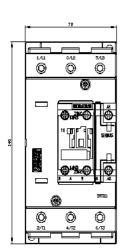
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	10 A
— at 440 V rated value	1.8 A
— at 600 V rated value	1 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A
— at 600 V rated value	2.6 A
 at 1 current path at DC-3 at DC-5 	
— 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 	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	7 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
operating power	
at AC-2 at 400 V rated value	45 kW
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
— at 1000 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
— at 1000 V rated value	37 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	22 kW
• at 690 V rated value	27.4 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	33 kVA
 up to 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

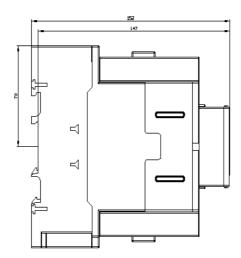
• up to 690 V for current peak value n=30 rated value	67.3 kVA			
short-time withstand current in cold operating state up to				
40 °C				
 limited to 1 s switching at zero current maximum 	1 725 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 5 s switching at zero current maximum 	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	1 000 1/h			
• at DC	1 000 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/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				
• 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 VA			
• at 60 Hz	151 VA			
apparent holding power				
at minimum rated control supply voltage at DC	1.8 VA			
at maximum rated control supply voltage at DC at maximum rated control supply voltage at DC	1.8 VA			
apparent holding power				
at minimum rated control supply voltage at AC				
- at 50 Hz	3.1 VA			
— at 50 Hz — at 60 Hz	3.1 VA			
 at maximum rated control supply voltage at AC 	0.1 974			
• at maximum rated control supply voltage at AC — at 50 Hz	3.1 VA			
- at 60 Hz	3.1 VA 3.1 VA			
apparent holding power of magnet coil at AC	2.1.\/A			
• at 50 Hz	3.1 VA			
• at 60 Hz	3.1 VA			
inductive power factor with the holding power of the coil	0.05			
• at 50 Hz	0.95			
• at 60 Hz	0.95			
closing power of magnet coil at DC	76 W			
holding power of magnet coil at DC	1.8 W			
closing delay				
• at AC	50 70 ms			
• at DC	50 70 ms			

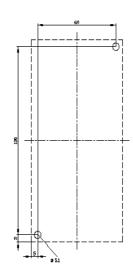
opening delay• at AC38 57 ms• at DC38 57 msarcing time10 20 mscontrol version of the switch operating mechanismStandard A1 - A2Auxiliary circuit1number of NC contacts for auxiliary contacts instantaneous contact1number of NC contacts for auxiliary contacts instantaneous contact10 Aoperational current at AC-12 maximum10 Aoperational current at AC-151• at 230 V rated value6 A• at 230 V rated value3 A• at 400 V rated value1 Aoperational current at DC-1210 A• at 450 V rated value6 A• at 450 V rated value6 A• at 460 V rated value6 A• at 230 V rated value1 Aoperational current at DC-1210 A• at 24 V rated value6 A• at 60 V rated value6 A• at 220 V rated value6 A• at 220 V rated value6 A• at 60 V rated value6 A• at 60 V rated value6 A• at 60 V rated value6 A• at 220 V rated value6 A• at 220 V rated value6 A• at 220 V rated value6 A </th
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at 600 V rated value 0.15 A 0 operational current at DC-13 • at 24 V rated value 10 A
operational current at DC-13 • at 24 V rated value 10 A
• 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
full-load current (FLA) for 3-phase AC motor
• at 480 V rated value 96 A
• at 600 V rated value 77 A
yielded mechanical performance [hp]
• for single-phase AC motor
— at 110/120 V rated value 10 hp
— at 230 V rated value 20 hp
• for 3-phase AC motor
- at 200/208 V rated value 30 hp
- at 220/230 V rated value 30 hp
- at 460/480 V rated value 75 hp
— at 575/600 V rated value 75 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 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 kA)
for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 607
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 607

required spacing			
with side-by-side mounting			
— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
 for grounded parts 			
— forwards	20 mm		
— upwards	10 mm		
— at the side	10 mm		
— downwards	10 mm		
for live parts			
— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
Connections/ Terminals			
type of electrical connection			
 for main current circuit 	screw-type terminals		
 for auxiliary and control circuit 	screw-type terminals		
 at contactor for auxiliary contacts 	Screw-type terminals		
of magnet coil	Screw-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)		
 for AWG cables for main contacts 	2x (10 1/0), 1x (10 2)		
connectable conductor cross-section for main contacts			
• solid	2.5 16 mm²		
stranded	6 70 mm²		
 finely stranded with core end processing 	2.5 50 mm²		
connectable conductor cross-section for auxiliary contacts			
 solid or stranded 	0.5 2.5 mm ²		
 finely stranded with core end processing 	0.5 2.5 mm ²		
type of connectable conductor cross-sections			
 for auxiliary contacts 			
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)		
AWG number as coded connectable conductor cross section			
for main contacts	10 2		
for auxiliary contacts	20 14		
Safety related data	20 14		
product function			
mirror contact according to IEC 60947-4-1	Yes		
 minor contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 	No		
suitable for safety function	Yes		
suitability for use safety-related switching OFF	Yes		
service life maximum	20 a		
test wear-related service life necessary	Yes		
proportion of dangerous failures			
with low demand rate according to SN 31920	40 %		
with high demand rate according to SN 31920	73 %		
B10 value with high demand rate according to SN 31920	1 000 000		
failure rate [FIT] with low demand rate according to SN 31920	100 FIT		
31920			
ISO 13849			
device type according to ISO 13849-1	3		
overdimensioning according to ISO 13849-2 necessary	Yes		
IEC 61508			
safety device type according to IEC 61508-2	Туре А		

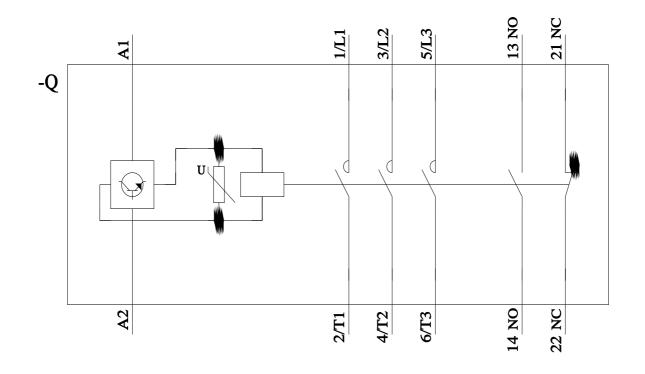
Electrical Safety			Electrical Safety					
-	the front according to							
· ·	e front according to IE	C 60529 finger	-safe, for vertical contact	from the front				
Approvals Certificates								
General Product Appr	oval							
CE EG-Konf.	UK CA	<u>Confirmation</u>		(UL)	KC			
General Product Ap- proval	EMV	Functional Saftey	Test Certificates		Marine / Shipping			
EHC	RCM	Type Examination Cer- tificate	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS			
Marine / Shipping				other	Railway			
	PRS	RINA	KMRS RMRS	Confirmation	<u>Special Test Certific-</u> <u>ate</u>			
Dangerous goods	Environment							
Transport Information	EPD	Environmental Con- firmations						
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=3RT2046-1NB30 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-1NB30 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1NB30 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2046-1NB30⟨=en Characteristic: Tripping characteristics, F4, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1NB30/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-1NB30&objecttype=14&gridview=view1								







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