SIEMENS

Data sheet

3RT2045-1NE30



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 48-80 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3

44	
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
 without load current share typical 	1.8 W
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	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5
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 %
Aain circuit	
	3
number of poles for main current circuit number of NO contacts for main contacts	
	3
 operating voltage at AC-3 rated value maximum 	1 000 V
at AC-3 rated value maximum at AC-3e rated value maximum	1 000 V
operational current	1000 V
at AC-1 at 400 V at ambient temperature 40 °C rated	125 A
value	120 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	125 A
value — up to 690 V at ambient temperature 60 °C rated value	105 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 1000 V rated value	30 A
• at AC-3e	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
— at 1000 V rated value	30 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 at maximum AC-1 rated value	50 mm²
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 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 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 — at 220 V rated value	2.5 A 1 A
	0.15 A
— at 440 V rated value — at 600 V rated value	0.06 A
• with 2 current paths in series at DC-3 at DC-5	0.00 A
- at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	7 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.16 A
• with 3 current paths in series at DC-3 at DC-5	
— 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 	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
— at 1000 V rated value	37 kW
• at AC-3e	
— 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
— at 1000 V rated value operating power for approx. 200000 operating cycles at AC-	37 kW
4	
• at 400 V rated value	17.9 kW
• 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 kVA
 up to 400 V for current peak value n=20 rated value 	55 kVA
 up to 500 V for current peak value n=20 rated value 	69 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	21.5 kVA
• up to 400 V for current peak value n=30 rated value	37.4 kVA
• up to 500 V for current peak value n=30 rated value	46.7 kVA
up to 690 V for current peak value n=30 rated value	64.5 kVA
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 CO a quitable at some surrent requireurs	102 A. Line minimum errors conting and to AC 4 retail value
Imited 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	4 000 4/h
	1 000 1/h
• at DC	1 000 1/h
operating frequency	000 / //
• at AC-1 maximum	900 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e 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	48 80 V
• at 60 Hz rated value	48 80 V
control supply voltage at DC	
rated value	48 80 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	1.1 A
duration of inrush current peak	50 µs
locked-rotor current mean value	0.8 A
locked-rotor current peak	2.3 A
duration of locked-rotor current	150 ms
holding current mean value	15 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 	1.8 VA
apparent holding power	
 at minimum rated control supply voltage at AC 	
— at 50 Hz	3.1 VA
— at 60 Hz	3.1 VA
 at maximum rated control supply voltage at AC 	
— at 50 Hz	3.1 VA
— at 60 Hz	3.1 VA
apparent holding power of magnet coil at AC	
• at 50 Hz	3.1 VA
• at 60 Hz	3.1 VA
inductive power factor with the holding power of the coil	
• 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 AC	38 57 ms
• at DC	38 57 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	1A
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
at 40 V rated value at 60 V rated value	2 A 2 A
at 100 V rated value at 110 V rated value	2A 1A
at 125 V rated value	0.9 A
	0.9 A 0.3 A
at 220 V rated value	
at 600 V rated value	0.1 A 1 faulty switching per 100 million (17)/ 1 mA)
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]	
for single-phase AC motor	
— at 110/120 V rated value	7.5 hp
— at 230 V rated value	15 hp
 for 3-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 required	gG: 10 A (500 V, 1 kA)
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
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
 side-by-side mounting 	Yes
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

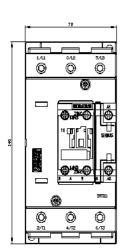
— at the side			0 mm				
 for grounded parts 							
— forwards			20 mm				
— upwards	— upwards		10 mm				
— at the side	— at the side		10 mm				
— downwards	— downwards		10 mm				
 for live parts 							
— forwards			20 mm				
— upwards			10 mm				
— downwards			10 mm				
— at the side			10 mm				
Connections/ Terminals							
type of electrical connection							
 for main current circuit 			screw-type terminals				
 for auxiliary and control circuit 			screw-type terminals				
 at contactor for auxiliary contact 			Screw-type terminals				
 of magnet coil 	010		Screw-type terminals				
type of connectable conductor cross-	sections for main (contacte	Ocicw-type terminais				
		LUIIIACIS	$2x/2 = 25 \text{ mm}^2$	$(2 - E - E - mm^2)$			
finely stranded with core end p		acto	2x (2.5 35 mm²), 1x	(2.0 00 mm ⁻)			
connectable conductor cross-section	ion for main cont	acts	0.5 40				
• solid			2.5 16 mm ²				
• stranded			6 70 mm²				
finely stranded with core end p			2.5 50 mm ²				
connectable conductor cross-sect	ion for auxiliary c	contacts					
 solid or stranded 			0.5 2.5 mm ²				
 finely stranded with core end p 	processing		0.5 2.5 mm ²				
type of connectable conductor cro	ss-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)					
michy shanded with COLE	 for AWG cables for auxiliary contacts 		,, _,, _	2x (20 16), 2x (18 14)			
-	ontacts			14)			
-		ss		14)			
for AWG cables for auxiliary co		ss		14)			
for AWG cables for auxiliary contract of the second connectable o		SS		14)			
 for AWG cables for auxiliary contracts AWG number as coded connectable for main contacts for auxiliary contacts 		35	2x (20 16), 2x (18	14)			
for AWG cables for auxiliary contracts AWG number as coded connectable section for main contacts		55	2x (20 16), 2x (18 10 2	14)			
 for AWG cables for auxiliary contracts AWG number as coded connectable for main contacts for auxiliary contacts 		55	2x (20 16), 2x (18 10 2	14)			
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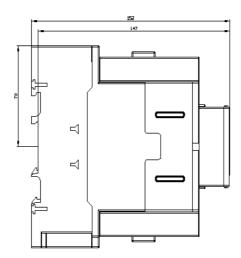
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Marine / Shipping						
ABS		Llovd's Kegister uts	PRS	RINA	RMRS	
other	Railway	Dangerous Good	Environment			
<u>Confirmation</u>	Vibration and Shock	Transport Information	Environmental Con- firmations			
Further information Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). 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=3RT2045-1NE30 Cax online generator						
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2045-1NE30 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1NE30						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2045-1NE30⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current						

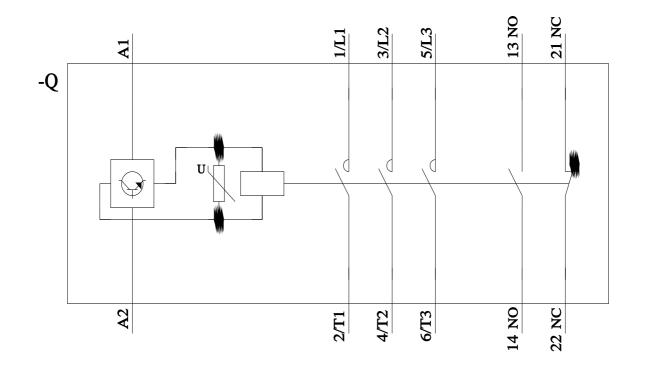
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1NE30/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2045-1NE30&objecttype=14&gridview=view1









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