SIEMENS

Data sheet

3RT2045-1NF30

power contactor, AC-3 80 A, 37 kW / 400 V 1 NO + 1 NC, 84-155 V AC/DC 3-pole, 3 NO, Size S3 screw terminal integrated varistor



Figure similar

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
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 	690 V
60947-1	
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- compatible auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	к
Reference code acc. to DIN EN 81346-2	Q
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
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
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated valueat AC-1	125 A
— up to 690 V at ambient temperature 40 °C rated value	125 A
— up to 690 V at ambient temperature 60 °C rated value	105 A
• at AC-2 at 400 V rated value	80 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
Connectable conductor cross-section in main circuit at AC-1	

• at 60 °C minimum permissible	35 mm ²
• at 40 °C minimum permissible	50 mm²
Operating current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	34 A
• at 690 V rated value	24 A
Operating 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
 with 2 current paths in series at DC-1 	
— 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
 with 3 current paths in series at DC-1 	
— 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
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-1	
— at 230 V rated value	47 kW
— at 230 V at 60 °C rated value	40 kW
— at 400 V rated value	82 kW
— at 400 V at 60 °C rated value	69 kW
— at 690 V rated value	142 kW
— at 690 V at 60 °C rated value	119 kW
• 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
Thermal short-time current limited to 10 s	760 A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	5.3 W
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	83 155 V
• at 60 Hz rated value	83 155 V
Control supply voltage at DC	00 455.14
rated value	83 155 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
Apparent pick-up power of magnet coil at AC	
• at 50 Hz	202 V·A
• at 60 Hz	202 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
Residual current of the electronics for control with signal <0>	
• at AC at 230 V maximum permissible	20 mA
• at DC at 24 V maximum permissible	20 mA
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	
 instantaneous contact 	1
Number of NO contacts for auxiliary contacts	
 instantaneous contact 	1
Operating current at AC-12 maximum	10 A
Operating 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
Operating 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
	0 A
• at 110 V rated value	3 A
• at 110 V rated value	3 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

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: 250A (690V,100kA), aM: 160A (690V,100kA), BS88: 200A (415V,80kA)
 — 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 	fuse gG: 10 A
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
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	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 	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)
 at AWG conductors for main contacts 	2x (10 1/0), 1x (10 2)
Connectable conductor cross-section for main	
contacts	0.5 40 mm²
• solid	2.5 16 mm ²
• stranded	6 70 mm ²
• finely stranded with core end processing	2.5 50 mm²
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
Type of connectable conductor cross-sections	
 for auxiliary contacts 	
— single or multi-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)
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	
for main contacts	10 2
	20 14
 for auxiliary contacts 	20 17

• with low demand rate acc. to SN 31920 40 % • with high demand rate acc. to SN 31920 73 % Failure rate [FIT] • with low demand rate acc. to SN 31920 100 FIT Product function • Nirror contact acc. to IEC 60947-4-1 Yes • positively driven operation acc. to IEC 60947-5-1 Yes 1 value for proof test interval or service life acc. to EC 61508 20 y Protection against electrical shock finger-safe when touched vertically from front acc. to IEC 609 ertificates/approvals EMC Declaration Conformity @ccc @csc @csc EMC Declaration Conformity @ccc @csc @csc @csc @csc @csc @csc Type Test Special Test Confirmation Yibration and Shock Vibration and Shock	• with high demand rate acc. to SN 31920 1 000 000 Proportion of dangerous failures 40 % • with high demand rate acc. to SN 31920 40 % • with high demand rate acc. to SN 31920 73 % Failure rate [FIT] • with how demand rate acc. to SN 31920 100 FIT Product function 100 FIT • hirror contact acc. to IEC 60947-4-1 Yes • positively driven operation acc. to IEC 60947-5-1 No 1 20 y Protection against electrical shock finger-safe when touched vertically from front acc. to IEC 60528 ertificates/approvals EMC Declaration of Conformity Ccc See Up See Sectificates Vertificates tother Railway Sec Sectificates Type Test Special Test Confurmation Vibration and Shock	afety related data				
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 Further information

 Information- and Downloadcenter (Catalogs, Brochures,...)

 http://www.siemens.com/industrial-controls/catalogs

 Industry Mall (Online ordering system)

 https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2045-1NF30

 Cax online generator

 http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2045-1NF30

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

 http://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1NF30

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

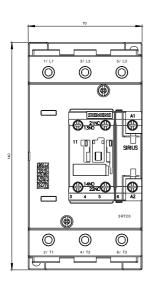
 http://www.automation.siemens.com/cs/ww/en/ps/3RT2045-1NF30&lang=en

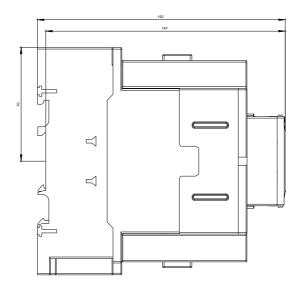
 Characteristic: Tripping characteristics, I*t, Let-through current

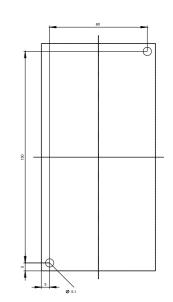
 https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1NF30/char

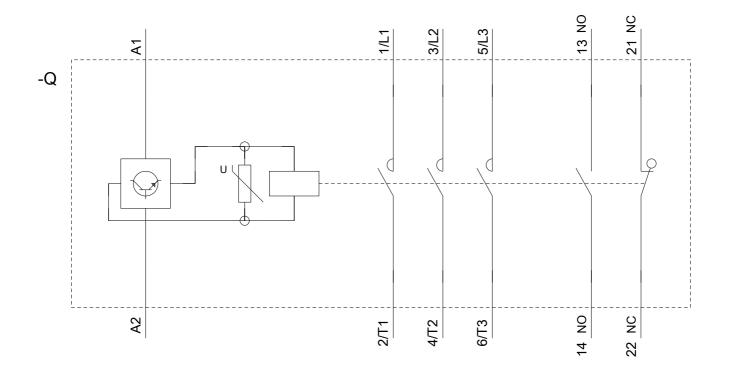
 Further characteristics (e.g. electrical endurance, switching frequency)

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