SIEMENS

Data sheet

3RT2015-1BB41

CONTACTOR, AC-3, 3KW/400V, 1NO, DC 24V, 3-POLE, SZ S00 SCREW TERMINAL



product brandname	SIRIUS
Product designation	Power contactor
Product type designation	3RT2

General technical data	
Size of contactor	S00
Product extension	
 function module for communication 	No
Auxiliary switch	Yes
Insulation voltage	
 rated value 	690 V
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 	400 V
60947-1	
Protection class IP	
• on the front	IP20
• of the terminal	IP20
Shock resistance at rectangular impulse	
• at DC	6,7g / 5 ms, 4,2g / 10 ms

• at DC10,5g / 5 ms, 6,6g / 10 msMechanical service life (witching cycles)30 000 000• of contactor vith added electronics- compatible auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000Ambient temperature	Shock resistance with sine pulse	_
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• of the contactor with added auxiliary switch block typical10 000 000Ambient conditionsAmbient temperature • during operation • during storage• during operation 	 of the contactor with added electronics- 	5 000 000
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• during operation-25 +60 °C• during storage-55 +80 °CMamber of poles for main current circuit3Number of NO contacts for main contacts3Operating voltage690 V• at AC-3 rated value maximum690 VOperating current18 A• 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• at AC-1- up to 690 V at ambient temperature 40 °C rated value• at AC-3- at 400 V rated value- up to 690 V at ambient temperature 60 °C16 A• at AC-3 at 400 V rated value7 A• at AC-3- at 400 V rated value• at AC-3- at 400 V rated value• at AC-1- at 690 V rated value• at 400 V rated value6 A• at 400 V rated value2.5 mm²• at 400 V rated value2.5 mm²• at 400 V rated value18 A• at 400 V rated value1.5 A	Ambient conditions	
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	— at ambient temperature 40 °C rated value	18 A
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Operating current for approx. 200000 operating cycles at AC-4 2.6 A • at 400 V rated value 2.6 A • at 690 V rated value 1.8 A Operating current - at 24 V rated value • at 24 V rated value 15 A	• at 60 °C minimum permissible	2.5 mm ²
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• at 690 V rated value 1.8 A 1.8 A Operating current • at 1 current path at DC-1 - at 24 V rated value 15 A	cycles at AC-4	
Operating current • at 1 current path at DC-1 — at 24 V rated value 15 A	• at 400 V rated value	
at 1 current path at DC-1		1.8 A
— at 24 V rated value 15 A		
	• at 1 current path at DC-1	
— at 110 V rated value 1.5 A	— at 24 V rated value	
	— at 110 V rated value	1.5 A

— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.7 A
Operating current	
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 110 V rated value	0.1 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 110 V rated value	0.25 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.14 A
— at 600 V rated value	0.14 A
Operating power	
• at AC-1	
— at 230 V rated value	6.3 kW
— at 230 V at 60 °C rated value	6 kW
— at 400 V rated value	11 kW
— at 400 V at 60 °C rated value	10.5 kW
— at 690 V rated value	19 kW
— at 690 V at 60 °C rated value	18 kW
• at AC-2 at 400 V rated value	3 kW
● at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 690 V rated value	4 kW

Operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	1.15 kW
• at 690 V rated value	1.15 kW
Thermal short-time current limited to 10 s	56 A
Power loss [W] at AC-3 at 400 V for rated value of	0.4 W
the operating current per conductor	
No-load switching frequency	
● at DC	10 000 1/h
Operating frequency	
● at AC-1 maximum	1 000 1/h
● at AC-2 maximum	750 1/h
● at AC-3 maximum	750 1/h
● at AC-4 maximum	250 1/h
Control circuit/ Control	
Type of voltage of the control supply voltage	DC
Control supply voltage at DC	
● rated value	24 V
Closing power of magnet coil at DC	4 W
Holding power of magnet coil at DC	4 W
Closing delay	
• at DC	30 100 ms
Opening delay	
• at DC	7 13 ms
Arcing time	10 15 ms
Residual current of the electronics for control with signal <0>	
 at AC at 230 V maximum permissible 	3 mA
• at DC at 24 V maximum permissible	10 mA
Auxiliary circuit	
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	10 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
• at 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	1 A
• at 600 V rated value	0.15 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	4.8 A
• at 600 V rated value	6.1 A
Yielded mechanical performance [hp]	

 for single-phase AC motor 	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
 for three-phase AC motor 	
— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 hp
Contact rating of auxiliary contacts according to UL	A600 / Q600

Chart sine it protection	
Short-circuit protection	
Design of the fuse link	
 for short-circuit protection of the main circuit 	
— with type of coordination 1 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
— with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
 for short-circuit protection of the auxiliary switch 	fuse gG: 10 A
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
Height	58 mm
Width	45 mm
Depth	73 mm
Required spacing	
 for grounded parts 	
— at the side	6 mm
• for live parts	
— at the side	6 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 	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 at AWG conductors for main contacts 	2x (20 16), 2x (18 14), 2x 12
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), 2x 4 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), 2x 12
Safety related data	
B10 value	
 with high demand rate acc. to SN 31920 	1 000 000
Proportion of dangerous failures	
 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	
Mirror contact acc. to IEC 60947-4-1	Yes; with 3RH29
T1 value for proof test interval or service life acc. to IEC 61508	20 у
Protection against electrical shock	finger-safe
Certificates/approvals	



Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

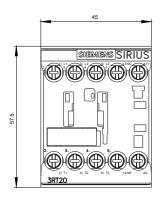
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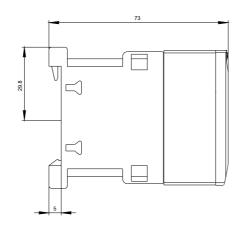
Cax online generator

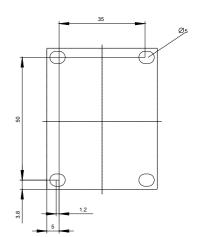
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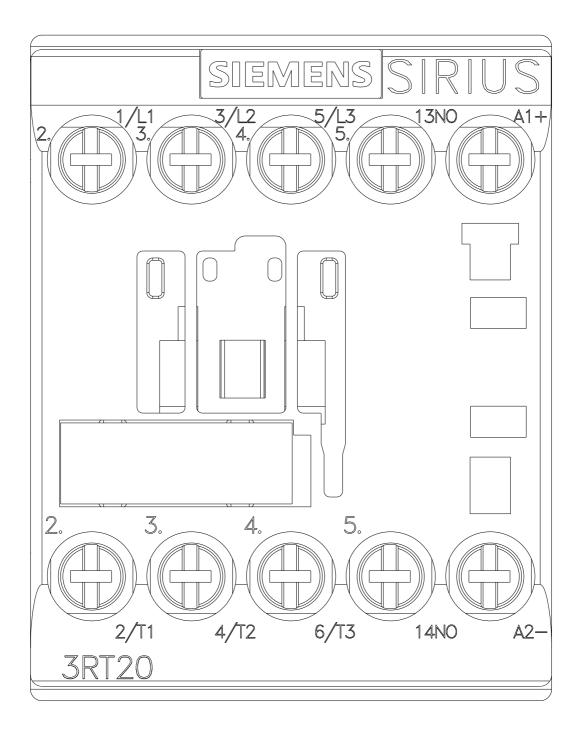
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1BB41

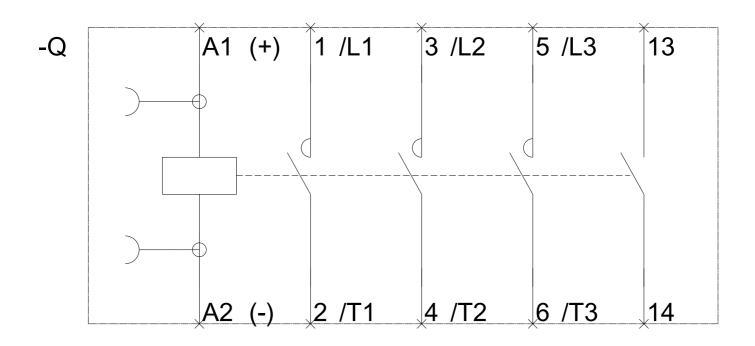
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-1BB41&lang=en











last modified:

06/20/2017