SIEMENS

Data sheet

3RT2018-2BB42

CONTACTOR, AC-3, 7.5KW/400V, 1NC, DC 24V, 3-POLE, SZ S00 SPRING-LOADED 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
Degree of pollution	3
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 DC11.4g / 5 ms, 7.3g / 10 msMechanical service life (switching cycles) • of contactor typical • of the contactor with added electronics- compatible auxiliary switch block typical30 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor added auxiliary switch block typical10 000 000• of the contactor for main current dircuit • during storage3• at AC-3 rated value maximum690 V• of AC-1 • at a mbient temperature 40 °C rated value • at AC-1 • up to 690 V at ambient temperature 60 °C rated value22 A• at AC-2 • at 400 V rated value16 A• at AC-3 • at 400 V rated value15.5 A• at AC-1 • at 400 V rated value2.5 mm² • at 40 °C mainum permissible• at 400 V rated value5.5 A• at 400 V rated value5.5 A• at 400 V rated value5.5 A• at 600 V rated value5.5 A• at 600 V rated value5.5 A	• at DC	7.3g / 5 ms, 4.7g / 10 ms			
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	— at 400 V rated value	16 A			
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• at 690 V rated value 4.4 A Operating current • at 1 current path at DC-1	Operating current for approx. 200000 operating cycles at AC-4				
• at 1 current path at DC-1	• at 400 V rated value	5.5 A			
• at 1 current path at DC-1	• at 690 V rated value	4.4 A			
	Operating current				
- at 24 V rated value 20 A	• at 1 current path at DC-1				
	— at 24 V rated value	20 A			

— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
Operating current	
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	20 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	20 A
— at 110 V rated value	0.35 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
Operating power	
• at AC-1	7.5114
— at 230 V rated value	7.5 kW
— at 230 V at 60 °C rated value	7.5 kW
— at 400 V rated value	13 kW
— at 400 V at 60 °C rated value	13 kW
— at 690 V rated value	22 kW
— at 690 V at 60 °C rated value	22 kW
• at AC-2 at 400 V rated value	7.5 kW
• at AC-3	4 1444
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW

Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 2.5 kW • at 690 V rated value 3.5 kW Thermal short-time current limited to 10 s 128 A	
at AC-4 2.5 kW • at 400 V rated value 3.5 kW Thermal short-time current limited to 10 s 128 A	
• at 690 V rated value 3.5 kW Thermal short-time current limited to 10 s 128 A	
Thermal short-time current limited to 10 s 128 A	
Power loss [W] at AC-3 at 400 V for rated value of 2.2 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 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 4 mA	
• at DC at 24 V maximum permissible 10 mA	
Auxiliary circuit	
Number of NC contacts	
for auxiliary contacts	
- instantaneous contact	
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	14 A
• at 600 V rated value	11 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
 for three-phase AC motor 	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	10 hp
Contact rating of auxiliary contacts according to UL	A600 / Q600

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: 50 A			
— with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 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	70 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 	spring-loaded terminals			
 for auxiliary and control current circuit 	spring-loaded terminals			
Type of connectable conductor cross-sections				
 for main contacts 				
— solid	2x (0.5 4 mm²)			
— single or multi-stranded	2x (0,5 4 mm²)			
 finely stranded with core end processing 	2x (0.5 2.5 mm²)			
 finely stranded without core end processing 	2x (0.5 2.5 mm²)			
 at AWG conductors for main contacts 	2x (20 12)			
Type of connectable conductor cross-sections				
 for auxiliary contacts 				
 — single or multi-stranded 	2x (0,5 4 mm²)			
 finely stranded with core end processing 	2x (0.5 2.5 mm²)			
 finely stranded without core end processing 	2x (0.5 2.5 mm²)			
 at AWG conductors for auxiliary contacts 	2x (20 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			
T1 value for proof test interval or service life acc. to IEC 61508	20 у			

Protection against electrical shock finger-safe						
Certificates/approv	Certificates/approvals					
General Produc	t Approval				Functional	
					Safety/Safety	
			KTL		of Machinery Baumusterbescheini	
(m)		Ē	<u>KIL</u>	гпг	gung	
(ui				EAC		
CCC	CSA	UL				
Declaration of	Test Certificates	3	Shipping App	roval		
Conformity						
	Typprüfbescheinigu ng/Werkszeugnis	spezielle Prüfbescheinigunge	LUCAN BURE			
して		<u>n</u>	tor SHIPPING	1828		
EG-Konf.			ABS	<u>BUREAU</u> VERITAS	GL	
Shipping Appro	val			other		
	A CONTRACTOR OF THE OWNER OWNER OF THE OWNER	RINA		Bestätigungen	Umweltbestätigung	
Register	and a second					
LRS	PRS	8 6 RINA	RMRS			
other						
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Further information

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

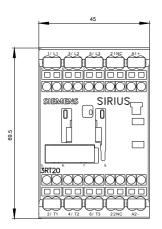
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2018-2BB42

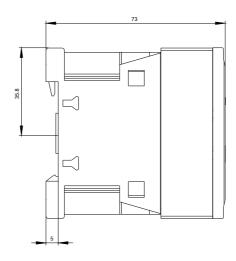
Cax online generator

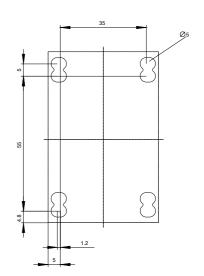
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-2BB42

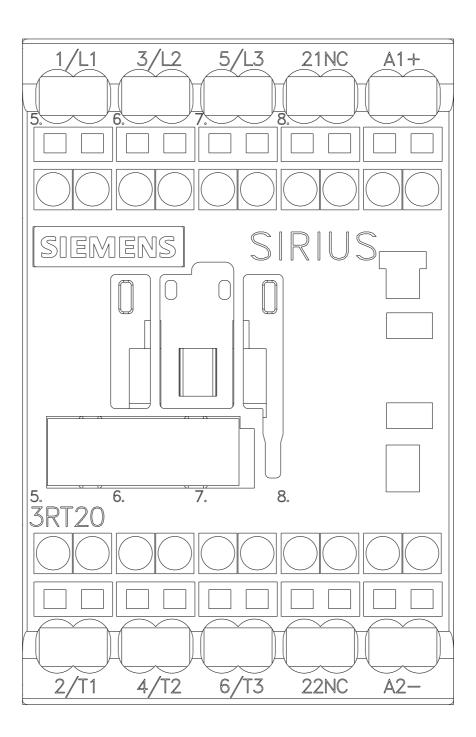
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-2BB42

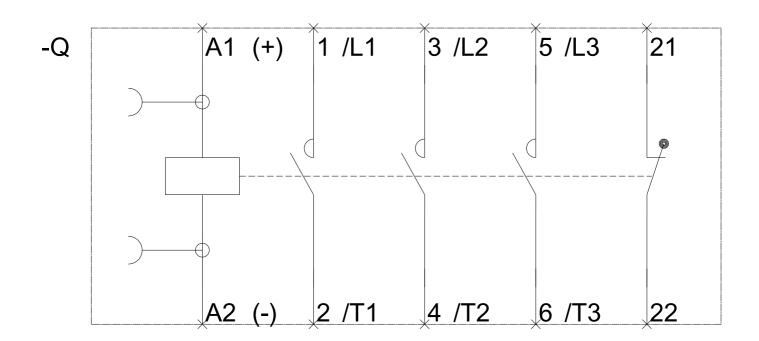
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2018-2BB42&lang=en











last modified:

03/31/2017

04/05/2017