SIEMENS

Data sheet

3RT2015-2AP02

CONTACTOR, AC-3, 3KW/400V, 1NC, AC 230V, 50/60 HZ, 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

Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 60947-1 	400 V
Protection class IP	
• on the front	IP20
• of the terminal	IP20
Shock resistance at rectangular impulse	
● at AC	6,7g / 5 ms, 4,2g / 10 ms

• at AC10,5g / 5 ms, 6,6g / 10 msMechanical service life (witching cycles)30 000 000• of contactor typical500 000• of the contactor with added deutronics- compatible auxiliary switch block typical10 000 000• of the contactor with added deutronics- compatible auxiliary switch block typical10 000 000• during storage-25 +60 °C• during storage-25 +60 °C• during storage-25 +60 °C• during storage-600 V• during storage-25 +60 °C• during storage-600 V• during storage18 A• at AC-1-000 V stated value• at AC-2 at 400 V rated value7 A• at AC-2 at 400 V rated value-7 A• at AC-1-100 V rated value• at AC-1-100 V rated value• at AC-1-100 V rated value• at AC-1-25 mm²• at AC-1-25 mm²• at AC-1-25 mm²• at AC-1-25 mm²• at AC-1-	Shock resistance with sine pulse	_
Mechanical service life (switching cycles) 30 000 000 • of contactor typical 30 000 000 • of the contactor with added electronics- compatible auxiliary switch block typical 10 000 000 Ambient temperature 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 Ambient temperature - • during operation -25 +60 °C • during operation -25 +80 °C Mumber of NO contacts for main contracts 3 Operating votage - • at AC-3 rated value maximum 690 V Operating votage - • at AC-1 rated value 18 A • at AC-1 at 400 V - u to 690 V at ambient temperature 60 °C 18 A • at AC-2 at 400 V rated value 7 A at 600 V rated value 7 A at 600 V rated value 6 A at 600 V rated value 7 A at 600 V rated value 6 A at 600 V rated value 6 A at 600 V rated value 2.5 mm² - at 600 V rated value 2.5 mm² - at 600 V rated value 2.6 A		10,5g / 5 ms, 6,6g / 10 ms
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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 AC	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	AC
Control supply voltage at AC	
• at 50 Hz rated value	230 V
• at 60 Hz rated value	230 V
Operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	
• at 50 Hz	27 V·A
• at 60 Hz	31.7 V·A
Inductive power factor with closing power of the coil	
● at 50 Hz	0.8
• at 60 Hz	0.81
Apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 V·A
• at 60 Hz	4.8 V·A
Inductive power factor with the holding power of the coil	
● at 50 Hz	0.25
• at 60 Hz	0.25
Closing delay	
• at AC	9 35 ms
Opening delay	
• at AC	3.5 14 ms
Arcing time	10 15 ms
Residual current of the electronics for control with signal <0>	

• at DC at 24 V maximum permissible10 rAuxiliary circuitImage: ContactsImage: Contacts• for auxiliary contacts1— instantaneous contact1Operating current at AC-12 maximum10 AOperating current at AC-1510 A• at 230 V rated value10 A• at 400 V rated value3 A• at 500 V rated value1 AOperating current at DC-121 A• at 690 V rated value1 A• at 48 V rated value6 A• at 60 V rated value3 A• at 110 V rated value3 A• at 220 V rated value3 A• at 24 V rated value3 A• at 24 V rated value3 A• at 25 V rated value3 A• at 220 V rated value1 A• at 24 V rated value10 A• at 24 V rated value2 A• at 24 V rated value10 A• at 24 V rated value2 A	Α
Number of NC contactsImage: scalar scala	
Number of NC contactsImage: scalar scala	
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Operating current at AC-12 maximum10 /Operating current at AC-1510 /• at 230 V rated value10 /• at 400 V rated value3 A• at 500 V rated value2 A• at 690 V rated value1 AOperating current at DC-1210 /• at 24 V rated value6 A• at 60 V rated value6 A• at 60 V rated value3 A• at 25 V rated value6 A• at 125 V rated value3 A• at 220 V rated value1 A• at 24 V rated value1 A	
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• 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	
• at 220 V rated value 0.3	
• at 600 V rated value 0.1	
Contact reliability of auxiliary contacts 1 fa	

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			
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 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	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)

		liacis	27 (20 12)			
afety related data						
B10 value						
 with high demand rate acc. to SN 31920 			1 000 000			
Proportion of danger	ous failures					
 with low deman 	nd rate acc. to SN 31	920	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 tes IEC 61508	st interval or service l	ife acc. to	20 y			
Protection against el	ectrical shock		finger-safe			
ertificates/approva	ls					
General Product					Functional Safety/Safety of Machinery	
ccc Declaration of	CSA Test Certificates	UL	Shipping	Approval		
Conformity						
EG-Konf.	Special Test Certificate	<u>Type Tes</u> <u>Certificates/</u> <u>Report</u>		BUREAU VERITAS	GL	
Shipping Approv	al			other		
Lloyd's Kegister LRS	PRS	RINA	RMRS	Confirmati	ion <u>Environmental</u> Confirmations	
other						

Further information

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

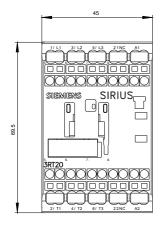
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-2AP02

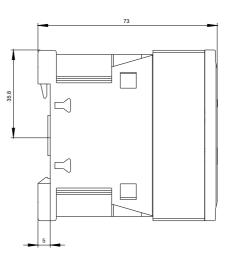
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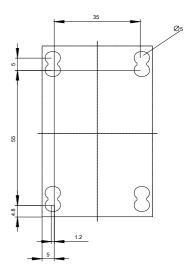
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-2AP02

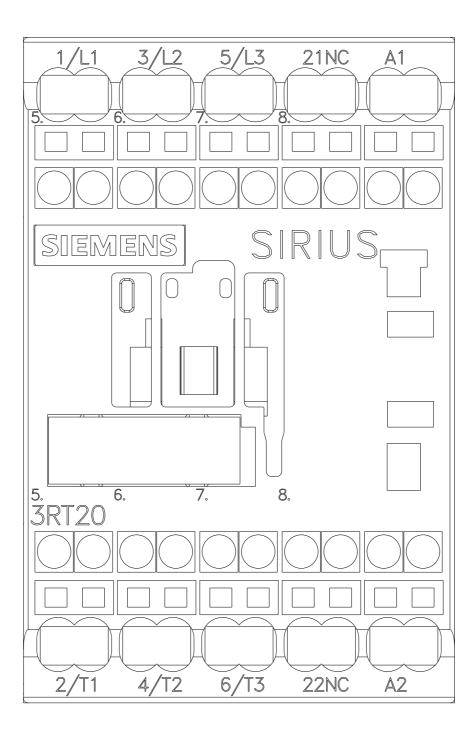
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2AP02

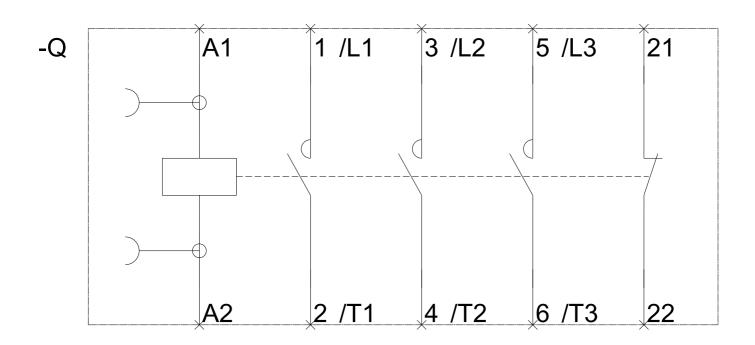
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-2AP02&lang=en











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