# SIEMENS

### Data sheet

## 3RT2018-2AP02

CONTACTOR, AC-3, 7.5KW/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	
<ul> <li>function module for communication</li> </ul>	No
Auxiliary switch	Yes
Insulation voltage	
<ul> <li>rated value</li> </ul>	690 V
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
<ul> <li>between coil and main contacts acc. to EN</li> </ul>	400 V
60947-1	
Protection class IP	
• on the front	IP20
• of the terminal	IP20
Shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms

• at AC11,4g / 5 ms, 7,3g / 10 msMechanical service life (switching cycles)30 000 000• of contactor typical30 000 000• of the contactor with added electronics- compatible auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000Ambient conditions	Shock resistance with sine pulse																																																																												
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— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— 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
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— 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	
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	0.1 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	0.35 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— 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	
— 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	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 690 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
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 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	37 V·A
• at 60 Hz	43 V·A
Inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.8
Apparent holding power of magnet coil at AC	
• at 50 Hz	5.7 V·A
• at 60 Hz	6.5 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	8 33 ms
Opening delay	
• at AC	4 15 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	
<ul> <li>for auxiliary contacts</li> </ul>	
— 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	14 A
• at 600 V rated value	11 A
Yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
<ul> <li>for three-phase AC motor</li> </ul>	
— 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	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A		
— with type of coordination 1 required			
— with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 A		
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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		
<ul> <li>Side-by-side mounting</li> </ul>	Yes		
Height	70 mm		
Width	45 mm		
Depth	73 mm		
Required spacing			
<ul> <li>for grounded parts</li> </ul>			
— at the side	6 mm		
<ul> <li>for live parts</li> </ul>			
— at the side	6 mm		
Connections/Terminals			
Type of electrical connection			
<ul> <li>for main current circuit</li> </ul>	spring-loaded terminals		
<ul> <li>for auxiliary and control current circuit</li> </ul>	spring-loaded terminals		
Type of connectable conductor cross-sections			
<ul> <li>for main contacts</li> </ul>			
— 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	2x (0.5 2.5 mm²)		
processing			
• at AWG conductors for main contacts	2x (20 12)		
Type of connectable conductor cross-sections			
<ul> <li>for auxiliary contacts</li> </ul>			
— single or multi-stranded	2x (0,5 4 mm²)		
- finely stranded with core end processing	2x (0.5 2.5 mm²)		
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)		

• at AWG conductors for auxiliary contacts

2x (20 ... 12)

		liacis	27 (20 12)				
afety related data							
B10 value							
<ul> <li>with high dema</li> </ul>	and rate acc. to SN 3 <sup>2</sup>	1920	1 000 000	1 000 000			
Proportion of danger	ous failures						
<ul> <li>with low deman</li> </ul>	nd rate acc. to SN 31	920	40 %				
<ul> <li>with high dema</li> </ul>	and rate acc. to SN 3 <sup>2</sup>	1920	73 %				
Failure rate [FIT]							
<ul> <li>with low deman</li> </ul>	nd rate acc. to SN 31	920	100 FIT				
Product function							
<ul> <li>Mirror contact acc. to IEC 60947-4-1</li> </ul>			Yes				
T1 value for proof test interval or service life acc. to IEC 61508			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

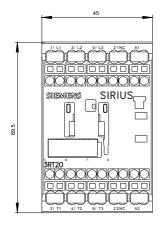
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2018-2AP02

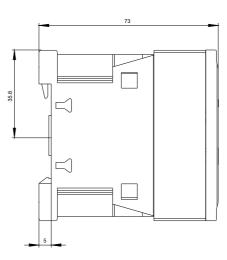
#### Cax online generator

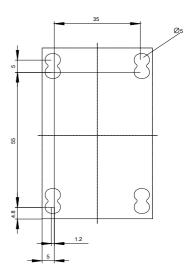
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-2AP02

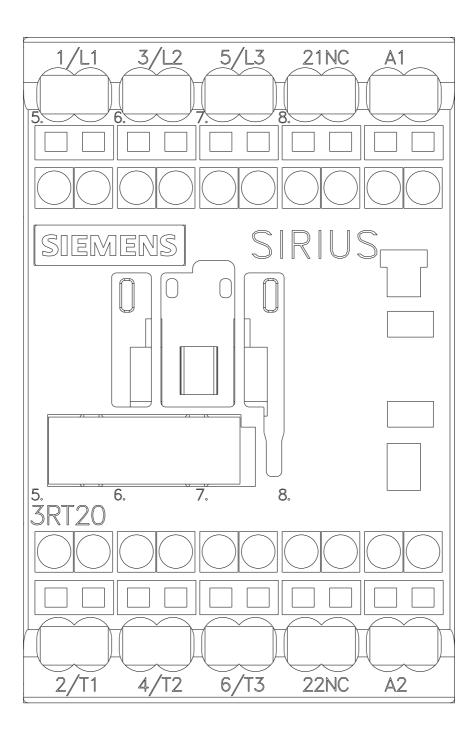
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-2AP02

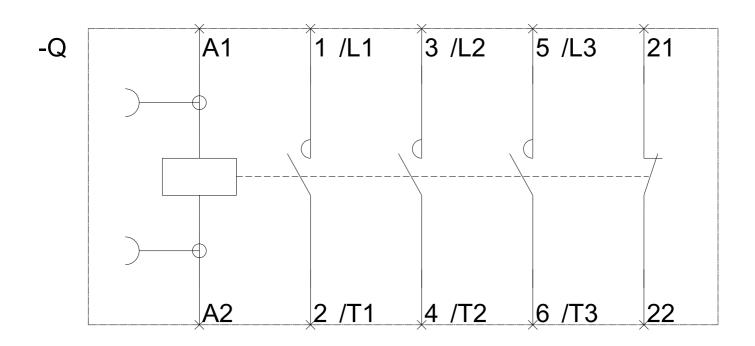
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2018-2AP02&lang=en











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