SIEMENS

Data sheet 3RT2026-1BB40

CONTACTOR, AC-3, 11KW/400V, 1NO+1NC, DC 24V, 3-POLE, SZ S0 SCREW TERMINAL



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

General technical data			
Size of contactor	S0		
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	10g / 5 ms, 7,5g / 10 ms		

Shock resistance with sine pulse			
• at DC	15g / 5 ms, 10g / 10 ms		
Mechanical service life (switching cycles)			
of contactor typical	10 000 000		
of the contactor with added electronics-	5 000 000		
compatible auxiliary switch block typical			
• of the contactor with added auxiliary switch	10 000 000		
block typical			
Ambient conditions			
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	690 V		
Operating current			
● at AC-1 at 400 V			
— at ambient temperature 40 °C rated value	40 A		
• at AC-1			
— up to 690 V at ambient temperature 40 °C	40 A		
rated value			
— up to 690 V at ambient temperature 60 °C rated value	35 A		
• at AC-2 at 400 V rated value	25 A		
• at AC-3			
— at 400 V rated value	25 A		
— at 500 V rated value	18 A		
— at 690 V rated value	13 A		
Connectable conductor cross-section in main circuit at AC-1			
at 60 °C minimum permissible	10 mm²		
at 40 °C minimum permissible	10 mm²		
Operating current for approx. 200000 operating			
cycles at AC-4			
• at 400 V rated value	9 A		
• at 690 V rated value	9 A		
Operating current			
• at 1 current path at DC-1			
— at 24 V rated value	35 A		
— at 110 V rated value	4.5 A		

— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 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	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 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	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 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	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
Operating power	
• at AC-1	13.3 kW
— at 230 V at 60 °C rated value	13.3 kW
— at 230 V at 60 °C rated value	23 kW
— at 400 V at 60 °C rated value	23 kW
— at 400 V at 60 °C rated value— at 690 V rated value	40 kW
— at 050 v Tateu value	TO KW

— at 690 V at 60 °C rated value	40 kW
 at AC-2 at 400 V rated value 	11 kW
● at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 690 V rated value	11 kW
Operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.4 kW
• at 690 V rated value	7.7 kW
Thermal short-time current limited to 10 s	200 A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	1.6 W
No-load switching frequency	
● at AC	5 000 1/h
• at DC	1 500 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
.) po or confidence and confidence of party confidence	
Control supply voltage at DC	
	24 V
Control supply voltage at DC • rated value Closing power of magnet coil at DC	5.9 W
Control supply voltage at DC • rated value Closing power of magnet coil at DC Holding power of magnet coil at DC	
Control supply voltage at DC • rated value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay	5.9 W 5.9 W
Control supply voltage at DC • rated value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC	5.9 W
Control supply voltage at DC • rated value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay	5.9 W 5.9 W 50 170 ms
Control supply voltage at DC • rated value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC	5.9 W 5.9 W 50 170 ms
Control supply voltage at DC • rated value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC Arcing time	5.9 W 5.9 W 50 170 ms
Control supply voltage at DC • rated value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC Arcing time Residual current of the electronics for control with	5.9 W 5.9 W 50 170 ms
Control supply voltage at DC • rated value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC Arcing time	5.9 W 5.9 W 50 170 ms
Control supply voltage at DC • rated value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC Arcing time Residual current of the electronics for control with signal <0>	5.9 W 5.9 W 50 170 ms 15 17.5 ms 10 10 ms
Control supply voltage at DC • rated value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC Arcing time Residual current of the electronics for control with signal <0> • at AC at 230 V maximum permissible • at DC at 24 V maximum permissible	5.9 W 5.9 W 50 170 ms 15 17.5 ms 10 10 ms
Control supply voltage at DC • rated value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC Arcing time Residual current of the electronics for control with signal <0> • at AC at 230 V maximum permissible	5.9 W 5.9 W 50 170 ms 15 17.5 ms 10 10 ms
Control supply voltage at DC • rated value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC Arcing time Residual current of the electronics for control with signal <0> • at AC at 230 V maximum permissible • at DC at 24 V maximum permissible Auxiliary circuit	5.9 W 5.9 W 50 170 ms 15 17.5 ms 10 10 ms
Control supply voltage at DC • rated value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC Arcing time Residual current of the electronics for control with signal <0> • at AC at 230 V maximum permissible • at DC at 24 V maximum permissible Auxiliary circuit Number of NC contacts	5.9 W 5.9 W 50 170 ms 15 17.5 ms 10 10 ms
Control supply voltage at DC • rated value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC Arcing time Residual current of the electronics for control with signal <0> • at AC at 230 V maximum permissible • at DC at 24 V maximum permissible Auxiliary circuit Number of NC contacts • for auxiliary contacts	5.9 W 5.9 W 50 170 ms 15 17.5 ms 10 10 ms
Control supply voltage at DC • rated value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC Arcing time Residual current of the electronics for control with signal <0> • at AC at 230 V maximum permissible • at DC at 24 V maximum permissible Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact	5.9 W 5.9 W 50 170 ms 15 17.5 ms 10 10 ms

— 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	0.3 A			
• at 220 V rated value	0.3 A			
• at 600 V rated value	0.3 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	21 A			
• at 600 V rated value	22 A			
Yielded mechanical performance [hp]				
 for single-phase AC motor 				
— at 110/120 V rated value	2 hp			
— at 230 V rated value	3 hp			
 for three-phase AC motor 				
— at 200/208 V rated value	5 hp			
— at 220/230 V rated value	7.5 hp			
— at 460/480 V rated value	15 hp			
— at 575/600 V rated value	20 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

— with type of assignment 2 required

• at AWG conductors for auxiliary contacts

• for short-circuit protection of the auxiliary switch required

gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A

fuse gG: 10 A

nstallation/ 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	85 mm			
Width	45 mm			
Depth	107 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 (1 2.5 mm²), 2x (2.5 10 mm²)			
 single or multi-stranded 	2x (1 2,5 mm²), 2x (2,5 10 mm²)			

2x (1 2.5 mm²), 2x (2.5 10 mm²)			
2x (1 2,5 mm²), 2x (2,5 10 mm²)			
2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²			
2x (16 12), 2x (14 8)			
2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)			
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			

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]			

2x (20 ... 16), 2x (18 ... 14)

• 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 y
Protection against electrical shock	finger-safe

KC

Certificates/approvals

General Product Approval

EMC











Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates			Shipping Approval
Type Examination	EG-Konf.	Type Test Certificates/Test Report	Special Test Certificate	Miscellaneous	ABS

Shipping Approval





GL









other

Confirmation

Environmental Confirmations



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=3RT2026-1BB40

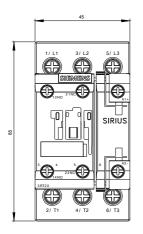
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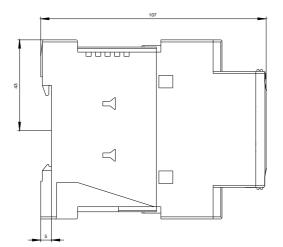
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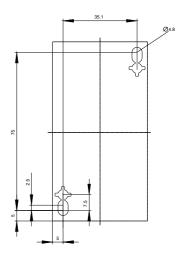
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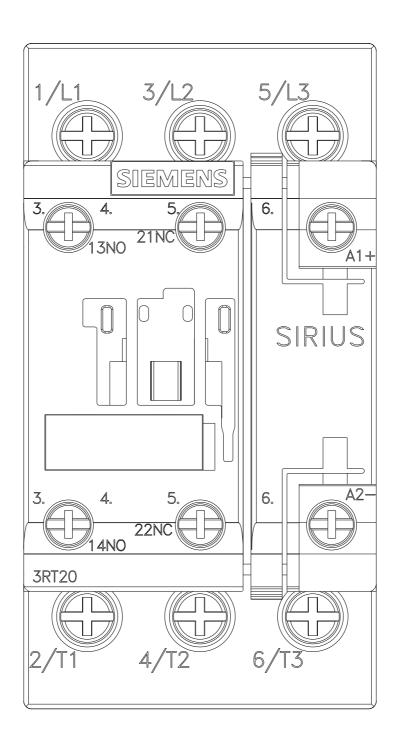
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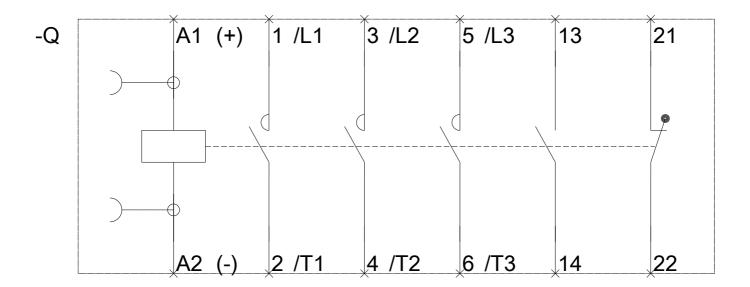
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