Data sheet 3RT2026-1BB40-0CC0

> CONTACTOR, AC-3, 11KW/400V, 1NO+1NC, DC 24V, COM. CAPABILITY, 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 	Yes
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
Aain 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	05 A
— 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
	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	
— at 230 V rated value	13.3 kW
— at 230 V at 60 °C rated value	13.3 kW
— at 400 V rated value	23 kW
— at 400 V at 60 °C rated value	23 kW
— at 690 V rated value	40 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	1.6 W
the operating current per conductor	
No-load switching frequency	
• 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
Control supply voltage at DC	
• rated value	24 V
Closing power of magnet coil at DC	5.9 W
Holding power of magnet coil at DC	5.9 W
Closing delay	
• at DC	50 170 ms
Opening delay	
• at DC	15 17.5 ms
Arcing time	10 10 ms
Residual current of the electronics for control with signal <0>	
• at AC at 230 V maximum permissible	7 mA
• at DC at 24 V maximum permissible	16 mA
Auxiliary circuit	
Number of NC contacts	
• for auxiliary contacts	
— instantaneous contact	1
	·
Number of NO contacts	<u>'</u>
Number of NO contacts • for auxiliary contacts	'
	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	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

	Sno	ort-circ	cuit p	rotec	tion
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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: 100 A

— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

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

tch	fuse	gG:	10	1

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)
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
 at AWG conductors for main contacts 	2x (16 12), 2x (14 8)
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)
 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)

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 T1 value for proof test interval or service life acc. to IEC 61508 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	F	Railway

Confirmation

Environmental Confirmations



Vibration and Shock

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

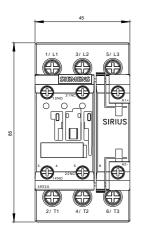
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2026-1BB40-0CC0

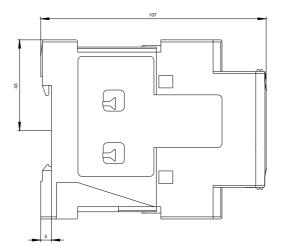
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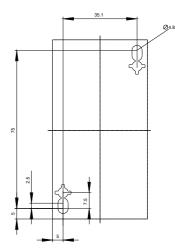
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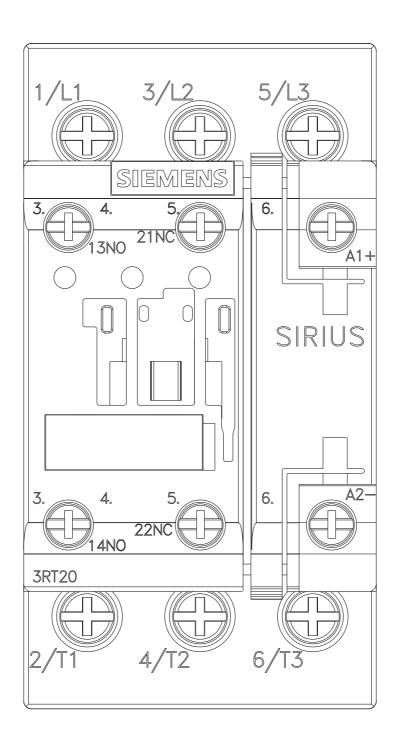
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1BB40-0CC0

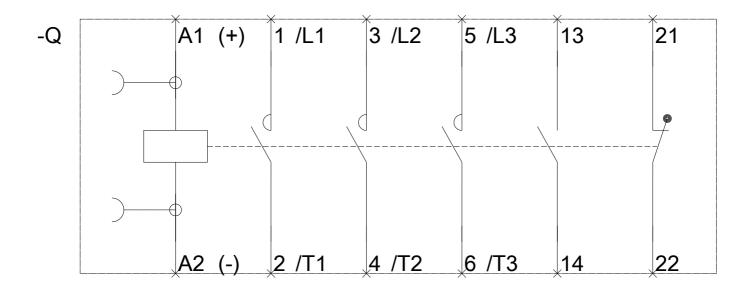
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2026-1BB40-0CC0&lang=en











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