SIEMENS

Data sheet 3RT2026-1BB40



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

Product designation	3RT2 contactor		
General technical data:			
Size of contactor	S0		
Product expansion			
 function module for communication 	No		
Auxiliary switch	Yes		
Insulation voltage			
Rated value	690 V		
maximum permissible voltage for safe isolation	400 V		
between coil and main contacts acc. to EN 60947-1			
Degree of pollution	3		
Shock resistance			
at rectangular impulse			
— for DC	10g / 5 ms, 7,5g / 10 ms		
• with sine pulse			
— for DC	15g / 5 ms, 10g / 10 ms		
Surge voltage resistance Rated value	6 kV		
Mechanical service life (switching cycles)			
 of the contactor typical 	10 000 000		
 of the contactor with added electronics- compatible auxiliary switch block typical 	5 000 000		
 of the contactor with added auxiliary switch 	10 000 000		

SIRIUS

block typical

Protection class IP

• on the front	IP20
• of the terminal	IP20
Equipment marking	
• acc. to DIN EN 61346-2	Q
● acc. to DIN EN 81346-2	Q
Ambient conditions:	
Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit:	
Number of poles for main current circuit	3
Number of NC contacts for main contacts	0
Number of NO contacts for main contacts	3
Connectable conductor cross-section in main circuit	
at AC-1	40?
• at 60 °C minimum permissible	10 mm²
at 40 °C minimum permissible	10 mm²
Operating voltage	222.1
• at AC-3 Rated value maximum	690 V
Operating current	
• at AC-1 at 400 V	40.4
— at ambient temperature 40 °C Rated value	40 A
● at AC-1 up to 690 V	
— at ambient temperature 40 °C Rated value	40 A
— 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
• at AC-4 at 400 V Rated value	15.5 A
Operating current for ≥ 200000 operating cycles at AC-4	
• at 400 V Rated value	9 A
• at 690 V Rated value	9 A
Operating current	
• with 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	
with 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 110 V Rated value	15 A
— at 220 V Rated value	3 A
— at 24 V Rated value	35 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 110 V Rated value	35 A
— at 220 V Rated value	10 A
— at 24 V Rated value	35 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 at 60 °C Rated value	13.3 kW
— at 400 V at 60 °C Rated value	23 kW
— at 690 V at 60 °C Rated value	40 kW
Operating power for ≥ 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 restricted to 10 s	200 A
Active power loss at AC-3 at 400 V for rated value of	1.6 W
the operating current per conductor	
No-load switching frequency	
• with AC	5 000 1/h
• for 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 for DC	
Rated value	24 V
Operating range factor control supply voltage rated	0.8 1.1
value of the magnet coil for DC	
Closing power of the magnet coil for DC	5.9 W
Holding power of the magnet coil for DC	5.9 W
Closing delay	
• for DC	50 170 ms
Arcing time	10 10 ms
Residual current of the electronics for control with	
signal <0>	
with AC at 230 V maximum permissible	7 mA
• for DC at 24 V maximum permissible	16 mA
Auxiliary circuit:	
Number of NC contacts	
• for auxiliary contacts	
 instantaneous contact 	1
Number of NO contacts	
• for auxiliary contacts	
— instantaneous contact	1
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
- 1000 \/ D 1	40.4

• at 230 V Rated value

at 400 V Rated valueat 500 V Rated value

• at 690 V Rated value

Operating current at DC-12

10 A

3 A

2 A

1 A

• 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 the 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 the auxiliary contacts acc. to UL	A600 / Q600	

Short-circuit:

Design of the fuse link

• for short-circuit protection of the main circuit

— with type of assignment 1 required

— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A fuse gL/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			
5 31	according to DIN EN 50022			
Side-by-side mounting	Yes			
Height	85 mm			
Width	45 mm			
Depth	107 mm			
Required spacing				
 with side-by-side mounting 				
— forwards	0 mm			
— Backwards	0 mm			
— upwards	0 mm			
— downwards	0 mm			
— at the side	0 mm			
for grounded parts				
— forwards	0 mm			
— Backwards	0 mm			
— upwards	0 mm			
— at the side	6 mm			
— downwards	0 mm			
• for live parts				
— forwards	0 mm			
— Backwards	0 mm			
— upwards	0 mm			
— downwards	0 mm			
— 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-section				
• for main contacts				
 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			
for AWG conductors for main contacts	2x (16 12), 2x (14 8)			
Type of connectable conductor cross-section				
• 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)			
• for 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 %
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

General Product Approval EMC Functional Safety/Safety of Machinery











Type Examination

Declaration of Conformity	Test Certificates			Shipping Ap	proval
	Type Test	Special Test	othor		AUVE



Type Test Certificates/Test Report

Special Test Certificate

other





Shipping Approval





GL



LRS







other

Confirmation

Environmental Confirmations



Further information

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT20261BB40

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT20261BB40



