# **SIEMENS**

Data sheet 3RT2026-1AP00



CONTACTOR, AC-3, 11KW/400V, 1NO+1NC, AC 230V 50HZ, 3-POLE, SZ S0 SCREW TERMINAL

product brand name	SIRIUS
Product designation	3RT2 contactor

General technical data:	
Product expansion function module for	No
communication	
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	
— with AC	8,3g / 5 ms, 5,3g / 10 ms
• with sine pulse	
— with AC	13,5g / 5 ms, 8,3g / 10 ms
Surge voltage resistance Rated value	6 kV
Mechanical service life (switching cycles)	
<ul> <li>of the contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronics- compatible auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Thermal short-time current restricted to 10 s	200 A
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
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
Operating voltage	
<ul> <li>at AC-3 Rated value maximum</li> </ul>	690 V
Operating current	
• at AC-1	
<ul> <li>— at 400 V at ambient temperature 40 °C</li> <li>Rated value</li> </ul>	40 A
— up to 690 V at ambient temperature 40 °C Rated value	40 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
• at AC-4 at 400 V Rated value	15.5 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
• 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
Operating current 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
• 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
Operating current 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
• 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
Active power loss at AC-3 at 400 V for rated value of the operating current per conductor	1.6 W
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
No-load switching frequency	
• with AC	5 000 1/h
• for DC	1 500 1/h
Control circuit/ Control:	

AC
230 V
0.8 1.1
77 V·A
0.82
9.8 V·A
0.05
0.25
8 40 ms
4 16 ms
10 10 ms
7 mA
16 mA
1
1
1
1
1
1 Yes
1 Yes
1 Yes 10 A
1 Yes 10 A
1 Yes 10 A 10 A 3 A
1 Yes 10 A 10 A 3 A
1 Yes 10 A 10 A 3 A 1 A
1 Yes 10 A  10 A 3 A 1 A

● at 600 V Rated value	0.15 A
Operating current at DC-13	
● at 24 V Rated value	10 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]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V Rated value	2 hp
— at 230 V Rated value	3 hp
<ul> <li>for three-phase AC motor</li> </ul>	
— 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 according to DIN EN 50022
<ul> <li>Side-by-side mounting</li> </ul>	Yes
Height	85 mm
Width	45 mm
Depth	97 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
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Type of connectable conductor cross-section	
• for main contacts	
<ul> <li>— single or multi-stranded</li> </ul>	2x (1 2,5 mm²), 2x (2,5 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
<ul> <li>for AWG conductors for main contacts</li> </ul>	2x (16 12), 2x (14 8)
• for auxiliary contacts	
<ul> <li>single or multi-stranded</li> </ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG conductors for auxiliary contacts</li> </ul>	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	
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	73 %
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	20 y
IEC 61508	
Protection against electrical shock	finger-safe

# Mechanical data: Size of contactor S0 Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature • during operation • during storage • during storage S0 2 000 m -25 ... +60 °C -55 ... +80 °C

### Certificates/ approvals:

General Product Approval EMC Functional Safety/Safety of Machinery











Type Examination

Declaration of
Conformity

### **Test Certificates**

**Shipping Approval** 



Type Test
Certificates/Test
Report

Special Test Certificate







# **Shipping Approval**

other



GL









Confirmation

### other

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=3RT20261AP00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT20261AP00&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT20261AP00&lang=en</a>



