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:	
General technical data:	
General technical data: Size of contactor	S0

Beneral 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 between coil and main contacts acc. to EN 60947-1	400 V
Degree of pollution	
Shock resistance	J
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)	
• 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 block typical 	10 000 000
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	2 000 m
maximum	
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	10 mm²
at 60 °C minimum permissible	
at 40 °C minimum permissible	10 mm²
Operating voltage	C00.\/
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	40.4
— 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	
	9 A
at 400 V Rated value at 600 V Rated value	9 A
at 690 V Rated value Operating current	314
Operating current	
with 1 current path at DC-1 at 24 V Pate division.	2F A
— 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	AC
Control supply voltage with AC	
• at 50 Hz Rated value	230 V
Operating range factor control supply voltage rated value of the magnet coil with AC	
• at 50 Hz	0.8 1.1
Apparent pick-up power of the magnet coil with AC	0.0 iii ii.
• at 50 Hz	77 V·A
Inductive power factor with closing power of the coil	11 VA
• at 50 Hz	0.82
Apparent holding power of the magnet coil with AC	0.02
	9.8 V·A
• at 50 Hz	9.0 V A
Inductive power factor with the holding power of the coil	
● at 50 Hz	0.25
Closing delay	
• with AC	8 40 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	
• 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 the auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
JL/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
	2 hp 3 hp
— at 110/120 V Rated value	
— at 110/120 V Rated value — at 230 V Rated value	
 at 110/120 V Rated value at 230 V Rated value for three-phase AC motor 	3 hp
 at 110/120 V Rated value at 230 V Rated value for three-phase AC motor at 200/208 V Rated value 	3 hp 5 hp
 at 110/120 V Rated value at 230 V Rated value for three-phase AC motor at 200/208 V Rated value at 220/230 V Rated value 	3 hp 5 hp 7.5 hp

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

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 rai according to DIN EN 50022
 Side-by-side mounting 	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
 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:	
1 000 000	
40 %	
73 %	
Yes	
20 y	

Certificates/ approvals:

General Product Approval

EMC

Functional Safety/Safety of Machinery

Type Examination











Declaration of)f
Conformity	

Test Certificates

Shipping Approval



EG-Konf.

Type Test
Certificates/Test
Report

Special Test Certificate







Shipping Approval

other





LRS







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

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT20261AP00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT20261AP00&lang=en



