SIEMENS

Data sheet 3RT2026-1AB00

CONTACTOR, AC-3, 11KW/400V, 1NO+1NC, AC 24V 50HZ, 3-POLE, SZ S0 SCREW TERMINAL



product brand name	SIRIUS
Product designation	3RT2 contactor

General technical data:	
Size of contactor	SO
Product expansion	
 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	400 V
between coil and main contacts acc. to EN 60947-1	
Protection class IP	
• on the front	IP20
• of the terminal	IP20
Degree of pollution	3
Shock resistance	
at rectangular impulse	
— at AC	8,3g / 5 ms, 5,3g / 10 ms

• with sine pulse	
— at AC	13,5g / 5 ms, 8,3g / 10 ms
Mechanical service life (switching cycles)	
• of the 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:	
Installation altitude at height above sea level	2 000 m
maximum	
Ambient temperature	05
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit:	
Number of NO contacts for main contacts	3
Number of NC contacts for main contacts	0
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 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
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 ≥ 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 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 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
	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 ≥ 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
Active power loss 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
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 circuit/ Control:	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
at 50 Hz Rated value	24 V
Operating range factor control supply voltage rated	
value of the magnet coil at AC	
● at 50 Hz	0.8 1.1
Apparent pick-up power of the magnet coil at AC	
● at 50 Hz	77 V·A
Inductive power factor with closing power of the coil	
● at 50 Hz	0.82
Apparent holding power of the magnet coil at AC	
● at 50 Hz	9.8 V·A
Inductive power factor with the holding power of the	
coil	
● at 50 Hz	0.25
Closing delay	
• at AC	8 40 ms
Opening delay	
• at AC	4 16 ms
Arcing time	10 10 ms
Residual current of the electronics for control with	
signal <0>	

at AC at 230 V maximum permissible
 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	
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	0.9 A
• at 220 V Rated value	0.3 A
• at 600 V Rated value	0.1 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 protection

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 ra
	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:	
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

Certificates/ approvals:

General Product Approval

EMC

Functional Safety/Safety of Machinery











Baumusterbescheini gung

Declaration	ı oi
Conformity	

Test Certificates

Shipping Approval



Typprüfbescheinigu ng/Werkszeugnis

spezielle Prüfbescheinigunge

OF SH





Shipping Approval

other



GL



LRS







Umweltbestätigung

other

Bestätigungen



Further information

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

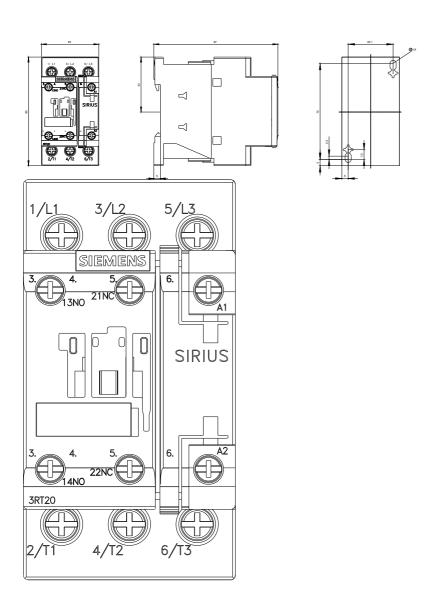
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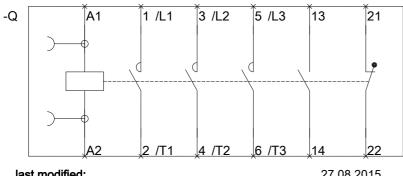
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT20261AB00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT20261AB00&lang=en





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