SIEMENS

Data sheet 3RT2026-2AG20



CONTACTOR, AC-3, 11KW/400V, 1NO+1NC, AC110V 50/60HZ, 3-POLE, SZ S0 SPRING-LOADED TERMINAL

product brand name	SIRIUS
Product designation	3RT2 contactor

General technical data:			
Insulation voltage			
Rated value	V	690	
Degree of pollution		3	
Surge voltage resistance Rated value	kV	6	
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	
Thermal short-time current restricted to 10 s	Α	200	
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	

 at AC-3 Rated value maximum 	V	690
Operating current		
• at AC-1		
— at 400 V at ambient temperature 40 °C Rated value	Α	40
— up to 690 V at ambient temperature 40 °C Rated value	Α	40
— up to 690 V at ambient temperature 60 °C Rated value	Α	35
● at AC-2 at 400 V Rated value	Α	25
• at AC-3		
— at 400 V Rated value	Α	25
— at 500 V Rated value	Α	18
— at 690 V Rated value	Α	13
• at AC-4 at 400 V Rated value	Α	15.5
Operating current with 1 current path		
• at DC-1		
— at 24 V Rated value	Α	35
— at 110 V Rated value	Α	4.5
— at 220 V Rated value	Α	1
— at 440 V Rated value	Α	0.4
— at 600 V Rated value	Α	0.25
• at DC-3 at DC-5		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	2.5
— at 220 V Rated value	Α	1
— at 440 V Rated value	Α	0.09
— at 600 V Rated value	Α	0.06
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	35
— at 110 V Rated value	Α	35
— at 220 V Rated value	Α	5
— at 440 V Rated value	Α	1
— at 600 V Rated value	Α	0.8
• at DC-3 at DC-5		
— at 110 V Rated value	Α	15
— at 220 V Rated value	Α	3
— at 24 V Rated value	Α	35
— at 440 V Rated value	Α	0.27
— at 600 V Rated value	Α	0.16
Operating current with 3 current paths in series		

• at DC-1		
— at 24 V Rated value	Α	35
— at 110 V Rated value	Α	35
— at 220 V Rated value	Α	35
— at 440 V Rated value	Α	2.9
— at 600 V Rated value	Α	1.4
• at DC-3 at DC-5		
— at 110 V Rated value	Α	35
— at 220 V Rated value	Α	10
— at 24 V Rated value	Α	35
— at 440 V Rated value	Α	0.6
— at 600 V Rated value	Α	0.6
Operating power		
• at AC-1 at 400 V Rated value	kW	23
● at AC-2 at 400 V Rated value	kW	11
• at AC-4 at 400 V Rated value	kW	7.5
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	13.3
— at 230 V Rated value	kW	13.3
— at 400 V at 60 °C Rated value	kW	23
— at 690 V at 60 °C Rated value	kW	40
— at 690 V Rated value	kW	40
• at AC-3		
— at 230 V Rated value	kW	5.5
— at 400 V Rated value	kW	11
— at 690 V Rated value	kW	11
Operating power for ≥ 200000 operating cycles at AC-4		
• at 400 V Rated value	kW	4.4
● at 690 V Rated value	kW	7.7
Operating frequency		
• at AC-3 maximum	1/h	750
Control circuit/ Control:		
Type of voltage of the control supply voltage		AC
Control supply voltage with AC		
● at 50 Hz Rated value	V	110
 at 60 Hz Rated value 	V	110

• at 50 Hz

Operating range factor control supply voltage rated

value of the magnet coil with AC

0.8 ... 1.1

• at 60 Hz 0.85 ... 1.1

Auxiliary circuit:		
Number of NC contacts		
for auxiliary contacts		
— instantaneous contact		1
Number of NO contacts		
for auxiliary contacts		
— instantaneous contact		1
Product expansion Auxiliary switch		Yes
Operating current at AC-15	_	
• at 230 V Rated value	Α	10
• at 400 V Rated value	Α	3
• at 690 V Rated value	Α	1
Operating current		
• at DC-12 at 125 V Rated value	Α	2
• at DC-12 at 220 V Rated value	Α	1
• at DC-12 at 600 V Rated value	Α	0.15
• at DC-13 at 125 V Rated value	Α	0.9
• at DC-13 at 220 V Rated value	Α	0.3
• at DC-13 at 600 V Rated value	Α	0.1
Operating current		
• at DC-12		
— at 60 V Rated value	Α	6
— at 110 V Rated value	Α	3
• at DC-13		
— at 24 V Rated value	Α	10
— at 60 V Rated value	Α	2
— at 110 V Rated value	Α	1
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	Α	21
• at 600 V Rated value	Α	22
yielded mechanical performance [hp]		
• for single-phase AC motor at 110/120 V Rated	metric	2
value	hp	
• for single-phase AC motor at 230 V Rated	metric	3
value	hp	
 for three-phase AC motor at 200/208 V Rated value 	metric hp	5
 for three-phase AC motor at 220/230 V Rated value 	metric hp	7.5

 for three-phase AC motor at 460/480 V Rated value 	metric hp	15
 for three-phase AC motor at 575/600 V Rated value 	metric hp	20
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600

value	hp	20
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		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A
— with type of assignment 2 required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
 for short-circuit protection of the auxiliary switch required 		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
 Side-by-side mounting 		Yes
Height	mm	102
Width	mm	45
Depth	mm	97
Required spacing		
with side-by-side mounting		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0

— at the side	mm	6	
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Connections/ Terminals:		
Type of electrical connection		
• for main current circuit		spring-loaded terminals
• for auxiliary and control current circuit		spring-loaded terminals
Type of connectable conductor cross-section		
• for main contacts		
 single or multi-stranded 		2x (1 10 mm²)
 finely stranded with core end processing 		2x (1 6 mm²)
 finely stranded without core end processing 		2x (1 6 mm²)
for AWG conductors for main contacts		2x (18 8)
for auxiliary contacts		·
single or multi-stranded		2x (0,5 2,5 mm²)
finely stranded with core end processing		2x (0.5 1.5 mm²)
— finely stranded without core end		2x (0.5 2.5 mm²)
processing		
 for AWG conductors for auxiliary contacts 		2x (20 14)
Apparent pick-up power of the magnet coil with AC		
● at 50 Hz	V·A	81
● at 60 Hz	V·A	79
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 low demand rate acc. to SN 31920with high demand rate acc. to SN 31920	% %	40 73
• with high demand rate acc. to SN 31920 Failure rate [FIT] with low demand rate acc. to SN	%	73
• with high demand rate acc. to SN 31920 Failure rate [FIT] with low demand rate acc. to SN 31920	%	73 100
 with high demand rate acc. to SN 31920 Failure rate [FIT] with low demand rate acc. to SN 31920 Product function Mirror contact acc. to IEC 60947-4-1 T1 value for proof test interval or service life acc. to 	% FIT	73 100 Yes
with high demand rate acc. to SN 31920 Failure rate [FIT] with low demand rate acc. to SN 31920 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	% FIT	73 100 Yes 20
 with high demand rate acc. to SN 31920 Failure rate [FIT] with low demand rate acc. to SN 31920 Product function Mirror contact acc. to IEC 60947-4-1 T1 value for proof test interval or service life acc. to IEC 61508 	% FIT	73 100 Yes 20
with high demand rate acc. to SN 31920 Failure rate [FIT] with low demand rate acc. to SN 31920 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 Mechanical data: Size of contactor	% FIT	73 100 Yes 20 finger-safe
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Certificates/ approvals:

• during storage

-55 ... +80

°C

General Product Approval

EMC

Functional Safety/Safety of Machinery











Type Examination

Declaration of	of
Conformity	

Test Certificates

Shipping Approval



Type Test
Certificates/Test
Report

Special Test Certificate







Shipping Approval

other



GL



LRS







Environmental Confirmations

other

Confirmation



Further information

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

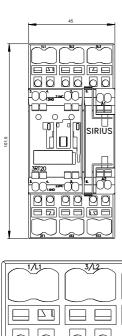
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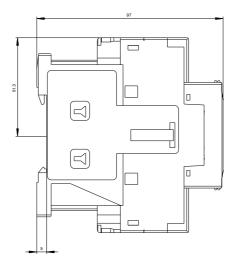
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT20262AG20

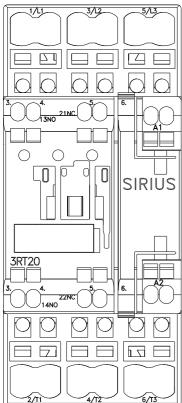
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

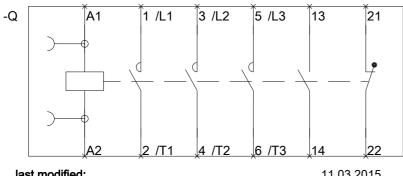
http://support.automation.siemens.com/WW/view/en/3RT20262AG20/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT20262AG20&lang=en









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