SIEMENS

Product data sheet

3RT2026-1AG20



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

General technical data:		
product brand name		SIRIUS
Size of the contactor		S0
Product extension		
• auxiliary switch		Yes
function module for communication		No
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-55 +80
during operating	°C	-25 +60
Shock resistance		
• at rectangular impulse		
• at AC		8,3g / 5 ms, 5,3g / 10 ms
• at sine pulse		
• at AC		13,5g / 5 ms, 8,3g / 10 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690

Maximum permissible voltage for protective separation / between coil and main contacts / in accordance with EN 60947-1	V	400
Mechanical operating cycles as operating time		
of the contactor / typical		10,000,000
of the contactor with added auxiliary switch block / typical		10,000,000
 of the contactor with added electronics-compatible auxiliary switch block / typical 		5,000,000
Main circuit:		
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		
• at 40 °C / minimum permissible	mm²	10
• at 60 °C / minimum permissible	mm²	10
Operating current		
• at AC-1 / up to 690 V		
• at 40 °C ambient temperature / rated value	А	40
• at 60 °C ambient temperature / rated value	А	35
• at AC-2 / at 400 V / rated value	А	25
• at AC-3		
• at 400 V / rated value	А	25
• at 500 V / rated value	А	18
• at 690 V / rated value	А	13
• at AC-4 / at 400 V / rated value	А	15.5
Operational current / for \geq 200000 operating cycles / at AC-4		
• at 400 V / rated value	А	9
• at 690 V / rated value	А	9
Operating current		
with 1 current path / at DC-1		
• at 24 V / rated value	А	35
• at 110 V / rated value	А	4.5
• at 220 V / rated value	А	1
• at 440 V / rated value	А	0.4
• at 600 V / rated value	А	0.25
 with 2 current paths in series / at DC-1 		
• at 24 V / rated value	А	35
• at 110 V / rated value	А	35
• at 220 V / rated value	А	5
• at 440 V / rated value	А	1
• at 600 V / rated value	А	0.8

• with 3 current paths in series / at DC-1		
• at 24 V / rated value	А	35
• at 110 V / rated value	А	35
• at 220 V / rated value	А	35
• at 440 V / rated value	А	2.9
• at 600 V / rated value	А	1.4
Operating current	_	
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	2.5
• at 220 V / rated value	А	1
• at 440 V / rated value	А	0.09
• at 600 V / rated value	А	0.06
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	А	35
• at 110 V / rated value	А	15
• at 220 V / rated value	А	3
• at 440 V / rated value	А	0.27
• at 600 V / rated value	А	0.16
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	А	35
• at 110 V / rated value	А	35
• at 220 V / rated value	А	10
• at 440 V / rated value	А	0.6
• at 600 V / rated value	А	0.6
Operating performance	_	
• at AC-1 / at 230 V / rated value	kW	13.3
• at AC-1 / at 400 V / rated value	kW	23
• at AC-1 / at 690 V / rated value	kW	40
• at AC-2		
• at 400 V / rated value	kW	11
• 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
• at AC-4		
• at 400 V / rated value	kW	7.5
Operating performance / for \geq 200000 operating cycles / at AC-4		
• at 400 V / rated value	kW	4.4
• at 690 V / rated value	kW	7.7

Thermal short-time current / restricted to 10 s	A	200
Active power loss / at AC-3 / at 400 V / with rated Operating current value / per conductor	W	1.6
Off-load operating frequency		
• at AC	1/h	5,000
Frequency of operation	_	
• with AC-1 / maximum	1/h	1,000
• with AC-2 / maximum	1/h	750
• with AC-3 / maximum	1/h	750
• with AC-4 / maximum	1/h	250
Control circuit/ Control:	_	
Voltage type / of control feed voltage		AC
Control supply voltage		
• at 50 Hz / at AC / rated value	V	110
• at 60 Hz / at AC / rated value	V	110
Operating range factor control supply voltage rated value / of the magnet coil		
• at 50 Hz / for AC		0.8 1.1
• at 60 Hz / for AC		0.85 1.1
Apparent pull-in power / of the solenoid / for AC	V·A	81
Apparent holding power / of the solenoid / for AC	V·A	10.5
Inductive power factor	_	
with the pull-in power of the coil		0.82
with the pull-in power of the coil		0.25
Closing delay	_	
• at AC	ms	8 40
Opening delay	_	
• at AC	ms	4 16
Arcing time	ms	10 10
Residual current / of electronics / for control with signal <0>		
• at 230 V / with AC / maximum permissible	mA	7
• at 24 V / with DC / maximum permissible	mA	16
Auxiliary circuit:		
Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts / for auxiliary contacts / instantaneous switching		1
Number of NO contacts / for auxiliary contacts / instantaneous switching		1
Operating current		
• at AC-12 / maximum	А	10

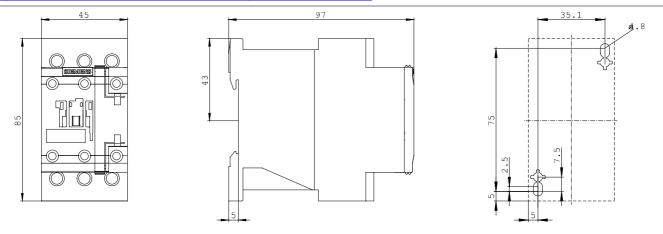
• at AC-15		
• at 230 V / rated value	A	10
• at 400 V / rated value	A	3
• at 500 V / rated value	А	2
• at 690 V / rated value	А	1
Operating current / at DC-12		
• at 24 V / rated value	А	10
• at 48 V / rated value	А	6
• at 60 V / rated value	А	6
• at 110 V / rated value	А	3
• at 125 V / rated value	А	2
• at 220 V / rated value	А	1
• at 440 V / rated value	А	0.3
• at 600 V / rated value	А	0.15
Operating current / at DC-13	_	
• at 24 V / rated value	А	10
• at 48 V / rated value	А	2
• at 60 V / rated value	А	2
• at 110 V / rated value	А	1
• at 125 V / rated value	А	0.9
• at 220 V / rated value	А	0.3
• at 440 V / rated value	А	0.14
• at 600 V / rated value	А	0.1
UL/CSA ratings:		
yielded mechanical performance [hp]		
 for single-phase squirrel cage motors 		
• at 110/120 V / rated value	hp	2
• at 230 V / rated value	hp	3
 for three-phase squirrel cage motors 		
• at 200/208 V / rated value	hp	5
• at 220/230 V / rated value	hp	7.5
• at 460/480 V / rated value	hp	15
• at 575/600 V / rated value	hp	20
Full-load current (FLA) / for 3-phase motor		
• at 480 V / rated value	А	21
• at 600 V / rated value	А	22
Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600
Short-circuit:		
Design of the fuse link		

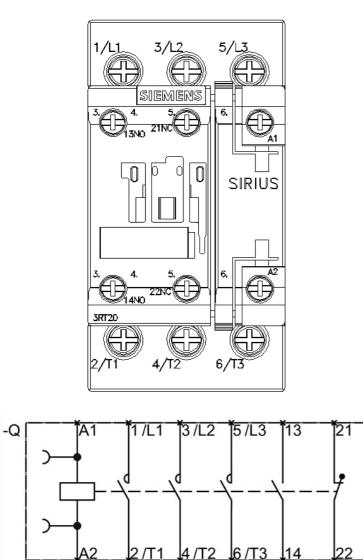
 for short-circuit protection of the auxiliary switch / required 		fuse gL/gG: 10 A	
for short-circuit protection of the main circuit			
 with type of assignment 1 / required 		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A	
 at type of coordination 2 / required 		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35A	
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	Mounting type screw a mounting		
Mounting type / series installation		Yes	
Width	mm	45	
Height	mm	85	
Depth	mm	97	
Distance, to be maintained, to the ranks assembly / sidewards	mm	0	
Connections/ terminals:			
Design of the electrical connection			
for main current circuit		screw-type terminals	
 for auxiliary and control current circuit 		screw-type terminals	
 for main contacts / finely stranded / with conductor end processing 			
for AWG conductors / for main contacts		2x (16 12), 2x (14 8)	
 for auxiliary contacts / finely stranded / with conductor 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			
according to SN 31920		1,000,000	
T1 value / for proof test interval or service life			
according to IEC 61508	а	20	
Proportion of dangerous failures			
with low demand rate / according to SN 31920	• with low demand rate / according to SN 31920 %		
with high demand rate / according to SN 31920 %		73	
Failure rate [FIT] / with low demand rate			
according to SN 31920	FIT	100	
Product function			
mirror contact to IEC 60947-4-1		Yes	
positively driven operation to IEC 60947-5-1		No	

Certificates/ approvals:							
General Product Ap	proval			EMC	Functional Safety / Safety of Machinery		
	(SA)	EHC		C-TICK	Type Examination		
Declaration of Conformity	Test Certificates						
EG-Konf.	Special Test Certificate	<u>Type Test</u> Certificates/Test Report					
Shipping Approval							
ABS	BUREAU VERITAS		GL GL	Lloyd's Register	PRS		
Shipping Approval		other					
RINA	RMRS	<u>Confirmation</u>	UDE VDE	Environmental Confirmations			
Further information	Further information:						
Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs							
Industry Mall (Online ordering system) http://mall.industry.siemens.com/							
Cax online generator http://www.siemens.com/cax							
Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://support.automation.siemens.com/WW/view/en/3RT2026-1AG20/all							

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

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last change:

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