SIEMENS

Industry Automation and Drive Technologies Service & Support

3RT2017-1BB41 CONTACTOR,AC3:5,5KW 1NO DC24V

Technical / CAx data

Main circuit:

Number of NC contacts / for main contacts

Number of NO contacts / for main contacts



CONTACTOR, AC-3, 5.5KW/400V, 1NO, DC 24V, 3-POLE, SZ S00 SCREW TERMINAL .

General technical data:		
product brand name		SIRIUS
Size of the contactor		S00
Product extension / auxiliary switch		Yes
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
Ambient temperature / during operating	C	-25+60
Shock resistance		
 at rectangular impulse 		
at DC		7.3g / 5 ms, 4.7g / 10 ms
at sine pulse		
at DC		11,4g / 5 ms, 7,3g / 10 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690
Mechanical operating cycles as operating time		
 of the contactor / typical 		30,000,000
 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

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Operating ourrent		
Operating current • at AC-1 / at 400 V		
	А	22
 at 40 ℃ ambient temperature / rated value 	A	22
	А	20
 at 60 ℃ ambient temperature / rated value 		20
 at AC-2 / at 400 V / rated value 	А	12
at AC-2 / at 400 V / rated value at AC-3 / at 400 V / rated value	A	12
	A	8.5
at AC-4 / at 400 V / rated value	A	8.5
Operating current		
with 1 current path / at DC-1at 24 V / rated value	А	20
	A	2.1
• at 110 V / rated value	А	2.1
 with 2 current paths in series / at DC-1 	^	00
 at 24 V / rated value 	A	20
at 110 V / rated value	А	12
 with 3 current paths in series / at DC-1 		
at 24 V / rated value	Α	20
at 110 V / rated value	Α	20
with 1 current path / at DC-3 / at DC-5		
at 24 V / rated value	Α	20
at 110 V / rated value	Α	0.1
 with 2 current paths in series / at DC-3 / at 		
DC-5		
at 24 V / rated value	Α	20
at 110 V / rated value	Α	0.35
 with 3 current paths in series / at DC-3 / at 		
DC-5		
at 24 V / rated value	Α	20
at 110 V / rated value	Α	20
Service power		
at AC-2 / at 400 V / rated value	kW	5.5
at AC-3 / at 400 V / rated value	kW	5.5
 at AC-4 / at 400 V / rated value 	kW	4
Active power loss / per conductor / typical	W	1.2
Off-load operating frequency		
• at AC	1/h	10,000
at DC	1/h	10,000
Frequency of operation / at AC-1 / according to IEC	1/h	1,000
60947-6-2		
Frequency of operation / at AC-2 / according to IEC 60947-6-2	1/h	750
Frequency of operation / at AC-3 / according to IEC	1/h	750
60947-6-2	.,	
Frequency of operation / at AC-4 / according to IEC	1/h	250
60947-6-2		
Control circuit:		
Type of voltage / of the controlled supply voltage		DC
Control supply voltage / 1		
for DC / rated value	V	24
operating range factor control supply voltage rated		
value / of the magnet coil		00.44
• for DC		0.81.1
Pull-in power / of the solenoid / for DC	W	4
Holding power / of the solenoid / for DC Closing delay	W	4
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at DC	ms	30100
Opening delay	1110	
at DC	ms	713
Arcing time	ms	1015
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 /		0
instantaneous switching Number of NO contacts / for auxiliary contacts / instantaneous switching		1
Operating current / of the auxiliary contacts	_	
at AC-12 / maximum	Α	10
at AC-15		
• at 230 V	Α	6
• at 400 V	Α	3
• at DC-12		
	Α	6
• at 48 V		
• at 60 V	A	6
at 110 V	Α	3
at 220 V	Α	1
at DC-13		
at 24 V	Α	6
at 48 V	Α	2
● at 60 V	Α	2
• at 110 V	Α	1
• at 220 V	А	0.3
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: 35 A
 at type of coordination 2 / required 		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20A
Installation/mounting/dimensions:		
Built in orientation	_	vertical
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Type of fixing/fixation / series installation		Yes
Width	mm	45
Height	mm	57.5
Depth	mm	73
Distance, to be maintained, to the ranks assembly / sidewards	mm	0
Distance, to be maintained, to earthed part / sidewards	mm	6
Connections:		
Design of the electrical connection		
 for main current circuit 		screw-type terminals
 for auxiliary and control current circuit 		screw-type terminals
Type of the connectable conductor cross-section		
for main contacts		

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 $2x~(0.5~...~1.5~mm^2),~2x~(0.75~...~2.5~mm^2),~2x~4~mm^2$

• for main contacts

solid

 finely stranded with conductor end processin for AWG conductors / for main content for auxiliary contacts solid finely stranded with conductor end processin for AWG conductors / for auxiliar Certificates/approvals:	ontacts g		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12
General Product Approval			Declaration of Conformity
× CCC × CSA	GOST	× UL	EC-Declaratior
Test Certificates			
other Special Test Type	cates/Test		
Shipping Approval			
	GL / Germani	x LRS/L	Lloyds R RINA / Registre
Shipping other			
Approval			
RMRS / Russ Confirmation	Household ar		
UL/CSA ratings:			
yielded mechanical performance (hp)			
 for single-phase squirrel cage me 	otors		
 at 110/120 V / rated value 		hp	0.5
at 230 V / rated value		hp	2
 for three-phase squirrel cage mo 	tors		
 at 200/208 V / rated value 		hp	3
 at 220/230 V / rated value 		hp	3
 at 460/480 V / rated value 		hp	7.5
• at 575/600 V / rated value		hp	10
Operating current (FLA) / for three-phase squ motors	irrei cage		
at 480 V / rated value		Α	11
at 600 V / rated value		Α	11
Contact rating designation / for auxiliary con-	tacts /		A600 / Q600
according to UL			
Safety:related Parameter:			
B10 value / with high demand rate			4 000 000
 according to SN 31920 T1 value / for proof test interval or service life 			1,000,000
according to IEC 61508	'	а	20
Proportion of dangerous failures			
with low demand rate / according 31920	to SN	%	40
 with high demand rate / according to SN 31920 		%	73
Failure rate (FIT value) / with low demand rate	•	CIT	400
according to SN 31920 Product function		FIT	100
 mirror contact to IEC 60947-4-1 			Yes
• 1115. Solitable to 12.0 00047-4-1			

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comment

positively driven operation to IEC 60947-5-

with 3RH29 No

Further information:

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

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

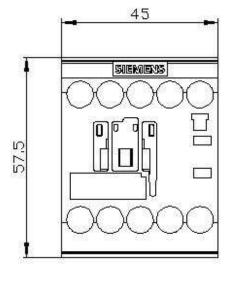
Industry Mall (Online ordering system) http://www.siemens.com/industrial-controls/mall

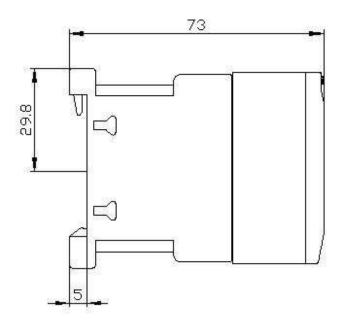
Cax online generator:

http://www.siemens.com/cax

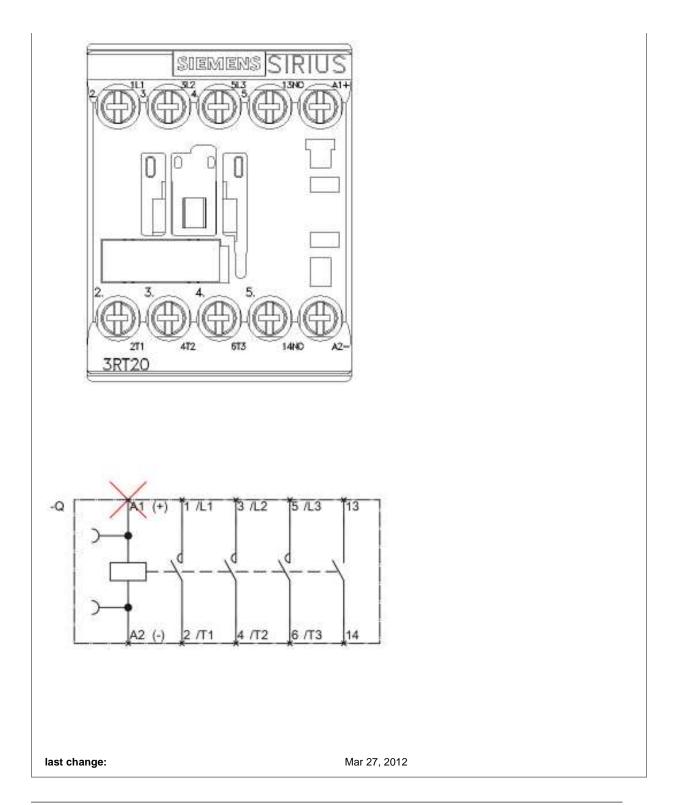
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT2017-1BB41/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2017-1BB41





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