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SIEMENS

Product data sheet

3RT2017-2KB42-0LA0



CONT. F. RAILW. A., AC-3, 5.5KW 400V, DC 24V, 0.7...1.25*US, W.SUPPRESSORDIODE INTEGRATED, 3-POLE, SIZE S00, SPRING-TYPE TERM.

General technical data:			
product brand name		SIRIUS	
product designation		3RT2 contactor	
Size of the contactor		S00	
Protection class IP / on the front		IP20	
Degree of pollution		3	
Installation altitude / at a height over sea level / maximum	m	2,000	
Ambient temperature			
during storage	°C	-55 80	
during the operating phase	°C	-40 70	
during transport	°C	-55 80	
Resistance against shock		9.8g / 5 ms and 5.9g / 10 ms	
Impulse voltage resistance / rated value	kV	6	
Insulation voltage / rated value	V	690	
Resistive loss			
• per conductor / typical	W	1.2	
of the magnet coil / for DC / typical	W	4	
Item designation			
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		К	

• according to DIN EN 61346-2	Q
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

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	٧	690
Operating current / at AC-1 / at 400 V		
• at 40 °C ambient temperature / rated value	Α	22
• at 60 °C ambient temperature / rated value	Α	20
Operating current		
• at AC-2 / at 400 V / rated value	Α	12
• at AC-3 / at 400 V / rated value	Α	12
• at AC-4 / at 400 V / rated value	Α	8.5
• with 1 current path / at DC-1		
• at 24 V / rated value	Α	20
• at 110 V / rated value	Α	2.1
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	Α	20
• at 110 V / rated value	Α	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	W	5,500

• at AC-3		
• at 400 V / rated value	W	5,500
• at 500 V / rated value	W	5,500
• at 690 V / rated value	W	5,500
• at AC-4 / at 400 V / rated value	W	4,000
Operating reactive power / at AC-6b		
• at 230 V / rated value	var	0
• at 400 V / rated value	var	0
• at 690 V / rated value	var	0
Off-load operating frequency	1/h	10,000
Frequency of operation		
• at AC-1 / according to IEC 60947-6-2 / maximum	1/h	1,000
• at AC-2 / according to IEC 60947-6-2 / maximum	1/h	750
• at AC-3 / according to IEC 60947-6-2 / maximum	1/h	750
at AC-4 / according to IEC 60947-6-2 / maximum	1/h	250
Control circuit:		
Design of activation of the operating mechanism		conventional
Design of the surge suppressor		with suppressor diode
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 solenoid		
• for DC		0.7 1.25

Auxiliary circuit:			
Product extension / auxiliary switch		Yes	
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		0	
• lagging switching		0	
Number of NO contacts / for auxiliary contacts			
• instantaneous switching		0	
• leading switching		0	
Operating current / of the auxiliary contacts			
• at AC-12 / maximum	Α	10	
• at AC-15			

W

W

12

4

Pull-in power / of the solenoid / for DC

Holding power / of the solenoid / for DC

• at 230 V	Α	10
• at 400 V	Α	3
• at DC-12		
• at 48 V	Α	6
• at 60 V	Α	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	Α	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, DIAZ A	ZED 5SB, NEOZED 5SE: 35
• at type of coordination 2 / required	gL/gG LV HRC 3NA, DIAZ 20A	ZED 5SB, NEOZED 5SE:

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	70	
Depth	mm	123	
Distance, to be maintained, to the ranks assembly			
• forwards	mm	0	
• backwards	mm	0	
• upwards	mm	6	
• downwards	mm	6	
• sidewards	mm	0	
Distance, to be maintained, to earthed part			
• forwards	mm	6	
• backwards	mm	0	
• upwards	mm	6	
• downwards	mm	6	

• sidewards	mm	6
Distance, to be maintained, conductive elements		
• forwards	mm	6
• backwards	mm	6
• upwards	mm	6
• downwards	mm	10
• sidewards	mm	6

Connections:			
Design of the electrical connection			
for main current circuit	spring-loaded terminals		
for auxiliary and control current circuit	spring-loaded terminals		
Type of the connectable conductor cross-section			
• for main contacts			
• solid	2x (0.5 4 mm2)		
• stranded	2x (0.5 4 mm2)		
• finely stranded			
 with conductor end processing 	2 x (0.5 2.5 mm2)		
 without conductor final cutting 	2x (0.5 2.5 mm2)		
• for AWG conductors / for main contacts	2x (20 12)		
for auxiliary contacts			
• solid	2x (0.5 4 mm2)		
• finely stranded			
 with conductor end processing 	2x (0.5 2.5 mm2)		
 without conductor final cutting 	2x (0.5 2.5 mm2)		
• for AWG conductors / for auxiliary contacts	2x (20 12)		

Certificates	/approvals:				
Verification of	of suitability			CE / UI	L/CSA/CCC
General Pro	oduct Approval	Test Certificates			other
CQC	(U)	Manufacturer	other		Manufacturer

UL ratings		
yielded mechanical performance (hp)		
• for single-phase squirrel cage motors		
• at 110/120 V / rated value	hp	0.5
• at 230 V / rated value	hp	2
• for three-phase squirrel cage motors		
• 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 squirrel cage motors		
• at 480 V / rated value	Α	11
• at 600 V / rated value	Α	11
Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600

Safety:		
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	%	40
with high demand rate / according to SN 31920	%	75
Failure rate (FIT value) / with low demand rate		
according to SN 31920	FIT	100
Protection against electrical shock		finger-safe

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

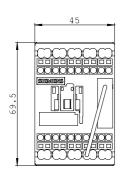
http://www.siemens.com/cax

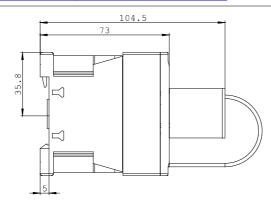
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

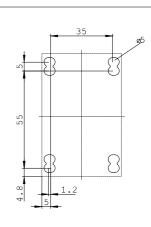
http://support.automation.siemens.com/WW/view/en/3RT2017-2KB42-0LA0/all

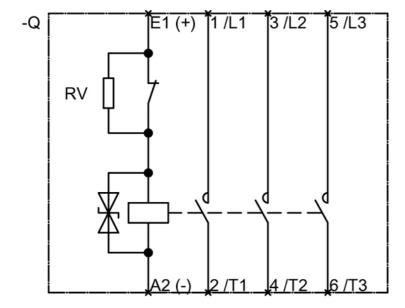
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2017-2KB42-0LA0}$









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