SIEMENS

Product data sheet

3RT2017-1AK62



CONTACTOR, AC-3, 5.5KW/400V, 1NC, AC110V 50HZ, 120V 60HZ 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	
during operating	°C	-25 +60	
Shock resistance			
• at rectangular impulse			
• at AC		7,3g / 5 ms, 4,7g / 10 ms	
• at sine pulse			
• at AC		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 advinary switch block (spical of the contactor with added electronics-compatible auxiliary		5,000,000
switch block / typical		3,000,000
Main circuit:		
Number of NC contacts / for main contacts	_	0
Number of NO contacts / for main contacts	_	3
Operating current	_	
• at AC-1 / at 400 V		
• at 40 °C ambient temperature / rated value	А	22
 at 60 °C ambient temperature / rated value 	А	20
• at AC-2 / at 400 V / rated value	А	12
• at AC-3 / at 400 V / rated value	А	12
• at AC-4 / at 400 V / rated value	А	8.5
Operating current	_	
• with 1 current path / at DC-1		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	2.1
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	12
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	20
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	0.1
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	0.35
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	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 60947-6-2	1/h	1,000
Frequency of operation / at AC-2 / according to IEC 60947-6-2	1/h	750
Frequency of operation / at AC-3 / according to IEC 60947-6-2	1/h	750
Frequency of operation / at AC-4 / according to IEC 60947-6-2	1/h	250
Control circuit:	_	
Type of voltage / of the controlled supply voltage		AC
Control supply voltage / 1		
• at 50 Hz / for AC / rated value	V	110
• at 60 Hz / for AC / rated value	V	120
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	43
Apparent holding power / of the solenoid / for AC	V·A	6.5
Inductive power factor	_	
with the pull-in power of the coil		0.8
with the pull-in power of the coil		0.25
Closing delay		
• at AC	ms	8 33
Opening delay		
• at AC	ms	4 15
Arcing time	ms	10 15
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		0
Operating current / of the auxiliary contacts		
• at AC-12 / maximum	А	10
• at AC-15		
• at 230 V	А	10
• at 400 V	А	3
• at DC-12		
• at 48 V	А	6
• at 60 V	А	6
• at 110 V	А	3

• at 220 V	А	1
• at DC-13		
• at 24 V	А	10
• at 48 V	А	2
• at 60 V	А	2
• at 110 V	А	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:		
mounting position		+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
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	
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
finely stranded	
 with conductor end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors / for main contacts 	2x (20 16), 2x (18 14), 2x 12
 for auxiliary contacts 	
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
finely stranded	

 with 	conductor	end	processing
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• for AWG conductors / for auxiliary contacts

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14), 2x 12

Certificates/approv	als:				
General Product App	proval			Declaration of Conformity	Test Certificates
	(SA) CSA	GOST		EG-Konf.	Special Test Certificate
Shipping Approval					
ABS		GL	Lloyd's Register	PRS	RINA
Shipping Approval	other				
RMRS	Confirmation	VDE VDE			
UL/CSA ratings:					
yielded mechanical pe	erformance (hp)				
 for single-phase sq 	uirrel cage motors				
• at 110/120 V / ra	ated 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 / ra	ated value		hp	3	
• at 460/480 V / ra	ated value		hp	7.5	
• at 575/600 V / ra	ated value		hp	10	
Operating current (FL	A) / for three-phase	e squirrel cage motors			
• at 480 V / rated val	ue		А	11	
• at 600 V / rated val	ue		А	11	
Contact rating design UL	ation / for auxiliary	contacts / according to		A600 / Q600	
Sicherheitsrelevant	te Kenngrößen:				
B10 value / with high	demand rate				
according to SN 31	920			1,000,000	
T1 value / for proof tes	st interval or servic	ce life			
• according to IEC 67	1508		а	20	
Proportion of dangero	ous failures				
 with low demand rate 	ate / according to SN	I 31920	%	40	
 with high demand r 	rate / according to SI	N 31920	%	73	

Failure rate (FIT value) / 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

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

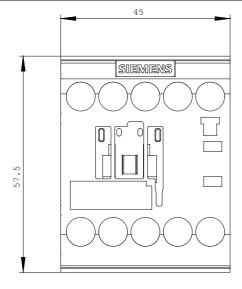
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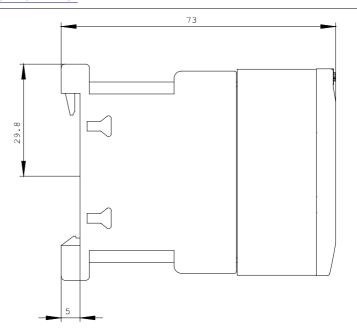
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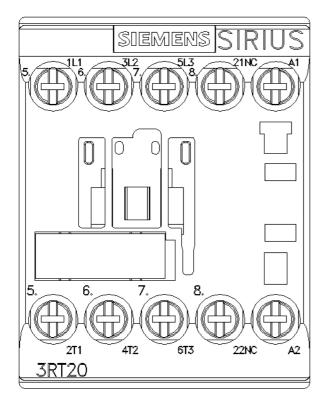
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

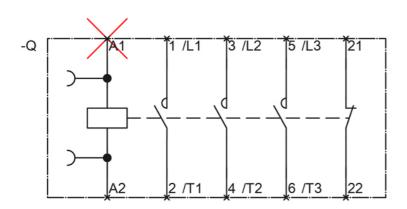
http://support.automation.siemens.com/WW/view/en/3RT2017-1AK62/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2017-1AK62









last change:

Jul 26, 2012