SIEMENS

Product data sheet

3RT1046-1AC00



CONTACTOR, 3PH, 45 KW/400 V, 32 V AC, 50 HZ, 3-POLE, SIZE S3, SCREW TERMINAL

General technical data:		
product brand name	_	SIRIUS
Size of the contactor	_	S3
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 operating	°C	-25 +60
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
Operating current		
• at AC-1 / at 400 V		
• at 40 °C ambient temperature / rated value	А	120
• at AC-3 / at 400 V / rated value	А	95
• at AC-4 / at 400 V / rated value	А	80

• with 1 current path / at DC-1		
• at 24 V / rated value	А	100
• at 110 V / rated value	А	9
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	А	100
• at 110 V / rated value	А	100
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	А	100
• at 110 V / rated value	А	100
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	А	40
• at 110 V / rated value	А	2.5
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	А	100
• at 110 V / rated value	А	100
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	А	100
• at 110 V / rated value	А	100
Service power		
• at AC-2 / at 400 V / rated value	kW	45
• at AC-3 / at 400 V / rated value	kW	45
• at AC-4 / at 400 V / rated value	W	45,000
Control circuit:		
Voltage type / of control feed voltage		AC
Operating range factor control supply voltage rated value / of the magnet coil		
• at 50 Hz		
• for AC		0.8 1.1
Apparent pull-in power / of the solenoid / for AC	V-A	270
Apparent holding power / of the solenoid / for AC	V-A	22
Inductive power factor / with the pull-in power of the coil		0.68

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	0
Number of NO contacts / for auxiliary contacts / instantaneous switching	0

0.27

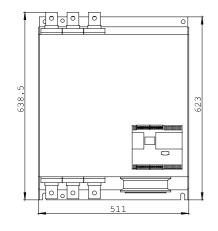
Short-circuit:

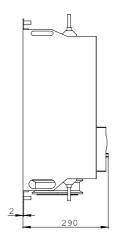
Inductive power factor / with the pull-in power of the coil

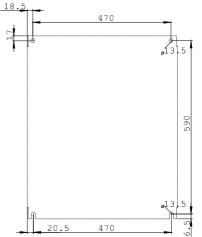
Design of the fuse link		
• for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 10 A
 for short-circuit protection of the main circuit 		
• with type of assignment 1 / required		fuse gL/gG: 250 A
• at type of coordination 2 / required		fuse gL/gG: 160 A
Installation/mounting/dimensions:		
Mounting type		screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail
series installation		Yes
Width	mm	70
Height	mm	146
Depth	mm	139
Distance, to be maintained, to earthed part / sidewards	mm	6
Connection type:		
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 (2.5 16 mm²)
• stranded		2x (10 50 mm²)
finely stranded		
 with conductor end processing 		2x (2.5 35 mm²)
 without conductor final cutting 		2x (10 35 mm²)
for AWG conductors / for main contacts		2x (10 1/0)
for auxiliary contacts		
• solid		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
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), 1x 12

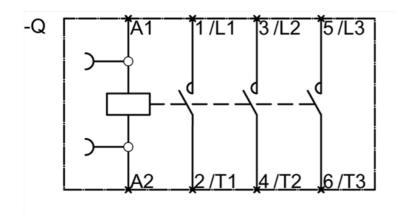
Certificates/approvals:

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	CSA	EAC		Type Examination	EG-Konf.
est Certificates	Shipping Appro	oval			
Special Test Certificate	ABS	GL	Lloyd's Kegister	RINA	RMRS
other					
<u>Confirmation</u>	other	Environmental Confirmations			
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last change:

Jul 28, 2014