SIEMENS

Product data sheet 3RT1046-1AP60



CONTACTOR, AC-3 45 KW/400 V, AC 220V 50HZ/240V 60HZ 3-POLE, SIZE S3, SCREW CONNECTION

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	Α	120
• at 60 °C ambient temperature / rated value	Α	100
• at AC-3 / at 400 V / rated value	А	95

• at AC-4 / at 400 V / rated value	Α	80
• with 1 current path / at DC-1		
• at 24 V / rated value	Α	100
• at 110 V / rated value	Α	9
 with 2 current paths in series / at DC-1 		
• at 24 V / rated value	Α	100
• at 110 V / rated value	Α	100
 with 3 current paths in series / at DC-1 		
• at 24 V / rated value	Α	100
• at 110 V / rated value	Α	100
with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	Α	40
• at 110 V / rated value	Α	2.5
 with 2 current paths in series / at DC-3 / at DC-5 		
• at 24 V / rated value	Α	100
• at 110 V / rated value	Α	100
 with 3 current paths in series / at DC-3 / at DC-5 		
• at 24 V / rated value	Α	100
• at 110 V / rated value	Α	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
Active power loss / per conductor / typical	W	10.8

Control circuit:		
Type of voltage / of the controlled supply voltage		AC
Control supply voltage / 1		
• at 50 Hz / for AC		
• rated value	V	220
• at 60 Hz / for AC		
• rated value	V	240
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		0.8 1.1
Apparent pull-in power / of the solenoid / for AC	V·A	300
Apparent holding power / of the solenoid / for AC	V-A	21

Inductive power factor / with the pull-in power of the coil	0.52	
Inductive power factor / with the pull-in power of the coil	0.29	

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
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		
• at 60 V	Α	6
• at 110 V	Α	3
• at 220 V	Α	1
• at DC-13		
• at 24 V	Α	10
• at 60 V	Α	2
• at 110 V	Α	1
• at 220 V	Α	0.3

Design of the fuse link • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the main circuit • with type of assignment 1 / required • at type of coordination 2 / required fuse gL/gG: 10 A fuse gL/gG: 250 A fuse gL/gG: 160 A

Installation/mounting/dimensions:		
Type of mounting		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)
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), 1x 12

Certificates/approvals:

General Product Approval

Functional Safety / Safety of Machinery Declaration of Conformity









Type Examination



Test Certificates

Special Test Certificate

Shipping Approval













other

Confirmation

other



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:

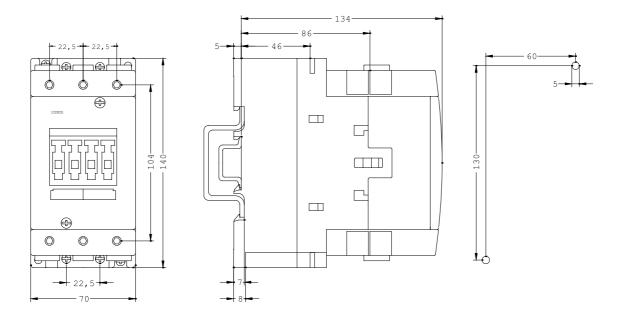
http://www.siemens.com/cax

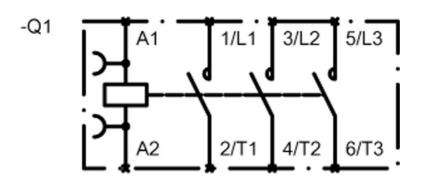
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

http://support.automation.siemens.com/WW/view/en/3RT1046-1AP60/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1046-1AP60





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