SIEMENS



Reference: 3RT1016-1AP02-1AA0

CONTACTOR, AC-3 4 KW/400 V, 1 NC, AC 230 V, 50/60 HZ, 3-POLE, SIZE S00, SCREW CONNECTION, MOUNTING POSITION VERTICAL

Buy it at Electric Automation Network



product designation power contactor General technical data: Size of contactor S00 Degree of pollution 3 Protection class IP on the front IP20 of the terminal IP20 Mechanical service life (switching cycles) of contactor typical 30 000 000 of the contactor with atd> 5 000 000 of the contactor with atd> 10 000 000 Ambient conditions: Installation altitude at height above sea level maximum 2 000 m Ambient temperature during operation -25 +60 °C Main circuit: Number of NO contacts for main contacts 3 Number of NC contacts for main contacts 0 Operating current			
General technical data: Size of contactor Degree of pollution Protection class IP on the front of the terminal Mechanical service life (switching cycles) of contactor typical of the contactor with atd> 5 000 000 of the contactor with atd> 10 000 000 Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature during operation -25 +60 °C Main circuit: Number of NO contacts for main contacts 3 Number of NC contacts for main contacts 5 000 Soo Ooo Analysis Analys	product brand name	SIRIUS	
Size of contactor Degree of pollution 3 Protection class IP on the front IP20 Of the terminal Mechanical service life (switching cycles) of contactor typical of the contactor with atd> 5 000 000 of the contactor with atd> 10 000 000 Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature during operation -25 +60 °C Main circuit: Number of NO contacts for main contacts 3 Number of NC contacts for main contacts 0	Product designation	power contactor	
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Main circuit: Number of NO contacts for main contacts Number of NC contacts for main contacts 0	Ambient temperature		
Number of NO contacts for main contacts 3 Number of NC contacts for main contacts 0	during operation	-25 +60 °C	
Number of NC contacts for main contacts 0	Main circuit:		
	Number of NO contacts for main contacts	3	
Operating current	Number of NC contacts for main contacts	0	
	Operating current		
at AC-1 at 400 V	at AC-1 at 400 V		

— at ambient temperature 40 °C rated value	22 A
at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated value	20 A
at AC-3	
— at 400 V rated value	9 A
Operating current	
at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	2.1 A
with 2 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	12 A
with 3 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
Operating current	
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 110 V rated value	0.15 A
with 2 current paths in series at DC-3 at DC-5	
— at 110 V rated value	0.35 A
— at 24 V rated value	20 A
with 3 current paths in series at DC-3 at DC-5	
— at 110 V rated value	20 A
— at 24 V rated value	20 A
Operating power	
at AC-1	
— at 400 V rated value	13 kW
at AC-2 at 400 V rated value	4 kW
at AC-3	
— at 400 V rated value	4 kW
— at 500 V rated value	4.5 kW
— at 690 V rated value	5.5 kW
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	0.7 W
Control circuit/ Control:	

Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
at 50 Hz rated value	230 V
at 60 Hz rated value	230 V
Control supply voltage frequency 1 rated value	50 Hz
Control supply voltage frequency 2 rated value	60 Hz
Operating range factor control supply voltage rated value of magnet coil at AC	
at 50 Hz	0.8 1.1
at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	27 V·A
Inductive power factor with closing power of the coil	0.8
Apparent holding power of magnet coil at AC	4.4 V·A
Inductive power factor with the holding power of the coil	0.27
Auxiliary circuit:	
Number of NC contacts	
for auxiliary contacts	
— instantaneous contact	1
Number of NO contacts	
for auxiliary contacts	
— instantaneous contact	0
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
at 230 V rated value	6 A
at 400 V rated value	3 A
Operating current at DC-12	
at 60 V rated value	6 A
at 110 V rated value	3 A
at 220 V rated value	1 A
Operating current at DC-13	
at 24 V rated value	10 A
at 60 V rated value	2 A
at 110 V rated value	1 A
at 220 V rated value	0.3 A
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Short-circuit protection	
Design of the fuse link	
for short-circuit protection of the main circuit	

— with type of coordination 1 required	fuse gL/gG: 35 A
— with type of assignment 2 required	fuse gL/gG: 20 A
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
Installation/ mounting/ dimensions:	
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Side-by-side mounting	Yes
Height	57.5 mm
Witd>	45 mm
Depth	72 mm
Required spacing	
for grounded parts	
— at the side	6 mm
Connections/Terminals:	
Type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-sections	
for main contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG conductors for main contacts	2x (20 16), 2x (18 14), 1x 12
Type of connectable conductor cross-sections	
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 core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG conductors for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12