SIEMENS

Data sheet 3RT1036-1AF00



CONTACTOR, AC-3 22 KW/400 V, AC 110 V, 50 HZ, 3-POLE, SIZE S2, SCREW CONNECTION

Figure similar

product brand name	SIRIUS
Product designation	power contactor

General technical data:	
Size of contactor	S2
Insulation voltage	
Rated value	690 V
Degree of pollution	3
Surge voltage resistance Rated value	6 kV
Mechanical service life (switching cycles)	
 of the contactor typical 	10 000 000
 of the contactor with added electronics- 	5 000 000
compatible auxiliary switch block typical	
 of the contactor with added auxiliary switch 	10 000 000
block typical	
Protection class IP	
• on the front	IP00
 of the terminal 	IP00
Equipment marking	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q

Ambient conditions:	
Installation altitude at height above sea level	2 000 m
maximum	
Ambient temperature	
during operation	-25 +60 °C

 during storage 	-55 +80 °C

fain 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
Connectable conductor cross-section in main circuit at AC-1	
	16 mm²
at 60 °C minimum permissible	16 mm²
at 40 °C minimum permissible	10 111111
Operating current • at AC-1 at 400 V	
	60 A
— at ambient temperature 40 °C Rated value	60 A
• at AC-1 up to 690 V	CO A
— at ambient temperature 40 °C Rated value	60 A
— at ambient temperature 60 °C Rated value	55 A
• at AC-3	
— at 400 V Rated value	50 A
— at 690 V Rated value	24 A
at AC-4 at 400 V Rated value	41 A
Operating current for ≥ 200000 operating cycles at AC-4	
• at 400 V Rated value	24 A
• at 690 V Rated value	12.6 A
Operating current	
with 1 current path at DC-1	
— at 24 V Rated value	55 A
— at 110 V Rated value	4.5 A
• with 2 current paths in series at DC-1	
— at 24 V Rated value	55 A
— at 110 V Rated value	25 A
• with 3 current paths in series at DC-1	
— at 24 V Rated value	55 A
— at 110 V Rated value	55 A
Operating current	
• with 1 current path at DC-3 at DC-5	
— at 24 V Rated value	35 A
— at 110 V Rated value	2.5 A
• with 2 current paths in series at DC-3 at DC-5	
— at 110 V Rated value	25 A
— at 24 V Rated value	55 A
• with 3 current paths in series at DC-3 at DC-5	

— at 110 V Rated value	55 A
— at 24 V Rated value	55 A
Operating power	
• at AC-1	
— at 230 V at 60 °C Rated value	22 kW
— at 690 V at 60 °C Rated value	66 kW
Operating power for ≥ 200000 operating cycles at AC-4	
● at 400 V Rated value	12.6 kW
• at 690 V Rated value	11.4 kW
Thermal short-time current restricted to 10 s	400 A
Active power loss at AC-3 at 400 V for rated value of	5 W
the operating current per conductor	
No-load switching frequency	
• with AC	5 000 1/h
Operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	800 1/h
• at AC-4 maximum	300 1/h
Construct aircovité Construct.	
Control circuit/ Control: Type of voltage of the control supply voltage	AC
Control supply voltage with AC	Α0
• at 50 Hz Rated value	110 V
at 50 Fiz Nated value	110 V
Poted value	50 Hz
Rated value Operating range factor control supply voltage rated.	50 Hz
Operating range factor control supply voltage rated	50 Hz
Operating range factor control supply voltage rated value of the magnet coil with AC	
Operating range factor control supply voltage rated value of the magnet coil with AC • at 50 Hz	0.8 1.1
Operating range factor control supply voltage rated value of the magnet coil with AC • at 50 Hz Apparent pick-up power of the magnet coil with AC	0.8 1.1 145 V·A
Operating range factor control supply voltage rated value of the magnet coil with AC • at 50 Hz Apparent pick-up power of the magnet coil with AC Inductive power factor with closing power of the coil	0.8 1.1
Operating range factor control supply voltage rated value of the magnet coil with AC • at 50 Hz Apparent pick-up power of the magnet coil with AC	0.8 1.1 145 V·A 0.79
Operating range factor control supply voltage rated value of the magnet coil with AC • at 50 Hz Apparent pick-up power of the magnet coil with AC Inductive power factor with closing power of the coil Apparent holding power of the magnet coil with AC Inductive power factor with the holding power of the	0.8 1.1 145 V·A 0.79 12.5 V·A
Operating range factor control supply voltage rated value of the magnet coil with AC • at 50 Hz Apparent pick-up power of the magnet coil with AC Inductive power factor with closing power of the coil Apparent holding power of the magnet coil with AC Inductive power factor with the holding power of the coil	0.8 1.1 145 V·A 0.79 12.5 V·A
Operating range factor control supply voltage rated value of the magnet coil with AC • at 50 Hz Apparent pick-up power of the magnet coil with AC Inductive power factor with closing power of the coil Apparent holding power of the magnet coil with AC Inductive power factor with the holding power of the coil Closing delay	0.8 1.1 145 V·A 0.79 12.5 V·A
Operating range factor control supply voltage rated value of the magnet coil with AC • at 50 Hz Apparent pick-up power of the magnet coil with AC Inductive power factor with closing power of the coil Apparent holding power of the magnet coil with AC Inductive power factor with the holding power of the coil Closing delay • with AC Arcing time	0.8 1.1 145 V·A 0.79 12.5 V·A 0.36
Operating range factor control supply voltage rated value of the magnet coil with AC • at 50 Hz Apparent pick-up power of the magnet coil with AC Inductive power factor with closing power of the coil Apparent holding power of the magnet coil with AC Inductive power factor with the holding power of the coil Closing delay • with AC Arcing time	0.8 1.1 145 V·A 0.79 12.5 V·A 0.36
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Operating range factor control supply voltage rated value of the magnet coil with AC • at 50 Hz Apparent pick-up power of the magnet coil with AC Inductive power factor with closing power of the coil Apparent holding power of the magnet coil with AC Inductive power factor with the holding power of the coil Closing delay • with AC Arcing time Auxiliary circuit: Number of NC contacts • for auxiliary contacts — instantaneous contact	0.8 1.1 145 V·A 0.79 12.5 V·A 0.36 10 24 ms 10 15 ms

0
10 A
6 A
3 A
6 A
3 A
1 A
10 A
2 A
1 A
0.3 A
1 faulty switching per 100 million (17 V, 1 mA)
A600 / Q600
7,000 / Q000
fuse gL/gG: 160 A
fuse gL/gG: 80 A
fuse gL/gG: 80 A
fuse gL/gG: 80 A fuse gL/gG: 10 A
fuse gL/gG: 80 A fuse gL/gG: 10 A screw and snap-on mounting onto 35 mm standard mounting rail
fuse gL/gG: 80 A fuse gL/gG: 10 A screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
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fuse gL/gG: 80 A fuse gL/gG: 10 A screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 112 mm 55 mm 115 mm 6 mm

— stranded	2x (0.75 25 mm²)
— single or multi-stranded	2x (0,75 16 mm²)
— finely stranded with core end processing	2x (0.75 16 mm²)
 finely stranded without core end 	2x (0.75 16 mm²)
processing	
 for AWG conductors for main contacts 	2x (18 2)
Type of connectable conductor cross-section	
 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)
 for AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12

Certificates/	approvale
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Certificates/ app	iovais.				
General Prod	duct Approval		Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
(F)	EHC	(UL)	Type Examination	CE EG-Konf.	Special Test Certificate

Test	Shipping Approval
Certificates	

Type Test Certificates/Test Report







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Shipping	other
Approval	



Environmental Confirmations

Confirmation

other

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