SIEMENS

Data sheet 3RT1036-1AP04



CONTACTOR, AC-3 22 KW/400 V, AC 230 V, 50 HZ, 2 NO + 2 NC 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 mm ²	
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 the operating current per conductor	5 W
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
at 7 to 1 maximum	
Control circuit/ Control:	
Type of voltage of the control supply voltage	AC
Control supply voltage with AC	
	230 V
Control supply voltage with AC • at 50 Hz Rated value • Rated value	
Control supply voltage with AC • at 50 Hz Rated value	230 V
Control supply voltage with AC • at 50 Hz Rated value • Rated value Operating range factor control supply voltage rated	230 V
Control supply voltage with AC • at 50 Hz Rated value • Rated value Operating range factor control supply voltage rated value of the magnet coil with AC	230 V 50 Hz
Control supply voltage with AC • at 50 Hz Rated value • Rated value Operating range factor control supply voltage rated value of the magnet coil with AC • at 50 Hz	230 V 50 Hz 0.8 1.1
Control supply voltage with AC • at 50 Hz Rated value • Rated value 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	230 V 50 Hz 0.8 1.1 145 V·A
Control supply voltage with AC • at 50 Hz Rated value • Rated value 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	230 V 50 Hz 0.8 1.1 145 V·A 0.79
Control supply voltage with AC • at 50 Hz Rated value • Rated value 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	230 V 50 Hz 0.8 1.1 145 V·A 0.79 12.5 V·A
Control supply voltage with AC • at 50 Hz Rated value • Rated value 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	230 V 50 Hz 0.8 1.1 145 V·A 0.79 12.5 V·A
Control supply voltage with AC • at 50 Hz Rated value • Rated value 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	230 V 50 Hz 0.8 1.1 145 V·A 0.79 12.5 V·A 0.36
Control supply voltage with AC • at 50 Hz Rated value • Rated value 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:	230 V 50 Hz 0.8 1.1 145 V·A 0.79 12.5 V·A 0.36
Control supply voltage with AC • at 50 Hz Rated value • Rated value 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	230 V 50 Hz 0.8 1.1 145 V·A 0.79 12.5 V·A 0.36
Control supply voltage with AC • at 50 Hz Rated value • Rated value 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:	230 V 50 Hz 0.8 1.1 145 V·A 0.79 12.5 V·A 0.36 10 24 ms 10 15 ms
Control supply voltage with AC • at 50 Hz Rated value • Rated value 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	230 V 50 Hz 0.8 1.1 145 V·A 0.79 12.5 V·A 0.36
Control supply voltage with AC • at 50 Hz Rated value • Rated value 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	230 V 50 Hz 0.8 1.1 145 V·A 0.79 12.5 V·A 0.36 10 24 ms 10 15 ms

 instantaneous contact 	2		
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 the auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)		
UL/CSA ratings:			
Contact rating of the auxiliary contacts acc. to UL	A600 / Q600		
· .			
Short-circuit:			
Design of the fuse link			
for short-circuit protection of the main circuit			
with type of assignment 1 required	fuse gL/gG: 160 A		
— with type of assignment 2 required	fuse gL/gG: 80 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	112 mm		
Width	55 mm		
Depth	164 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-section			
• for main contacts			
— solid	2x (0.75 16 mm²)		

— 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/	approvals.
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General Prod	uct Approval		Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
SP	(UL	EAC	Type Examination	CE EG-Konf.	Type Test Certificates/Test Report

Test	Shipping Approval
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Special Test Certificate







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Shipping Approval	other			
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Confirmation

Environmental Confirmations

other

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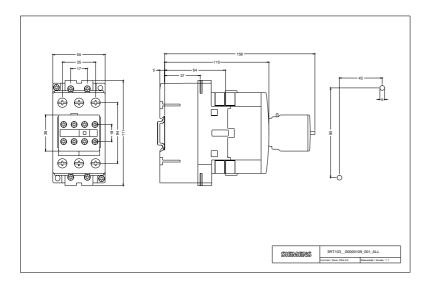
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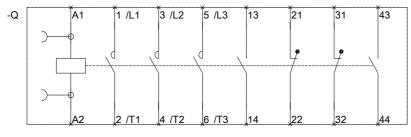
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