SIEMENS

Data sheet 3RT1535-1AP00



CONTACTOR, AC-3 18.5 KW,400V, AC 230 V, 50 HZ 4-POLE, 2 NO + 2 NC, 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		
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		
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

lain circuit:			
Number of poles for main current circuit	4		
Number of NC contacts for main contacts	2		
Number of NO contacts for main contacts	2		
Connectable conductor cross-section in main circuit at AC-1			
• at 60 °C minimum permissible	16 mm²		
• at 40 °C minimum permissible	16 mm²		
Operating current			
• at AC-1 up to 690 V			
— at ambient temperature 40 °C Rated value	60 A		
— at ambient temperature 60 °C Rated value	55 A		
• at AC-2 at AC-3 at 400 V			
— per NO contact Rated value	40 A		
— per NC contact Rated value	40 A		
Operating current			
• with 1 current path at DC-1			
— at 24 V Rated value	50 A		
— at 110 V Rated value	4.5 A		
— at 220 V Rated value	1 A		
— at 440 V Rated value	0.4 A		
• with 2 current paths in series at DC-1			
— at 24 V Rated value	50 A		
— at 110 V Rated value	45 A		
— at 220 V Rated value	5 A		
— at 440 V Rated value	1 A		
Operating current			
• with 1 current path at DC-3 at DC-5			
— at 24 V per NC contact Rated value	35 A		
— at 24 V per NO contact Rated value	35 A		
— at 110 V per NC contact Rated value	1.25 A		
— at 110 V per NO contact Rated value	2.5 A		
— at 220 V per NC contact Rated value	0.5 A		
— at 220 V per NO contact Rated value	1 A		
— at 440 V per NC contact Rated value	0.05 A		
— at 440 V per NO contact Rated value	0.1 A		
• with 2 current paths in series at DC-3 at DC-5			
— at 110 V per NC contact Rated value	12.5 A		
— at 110 V per NO contact Rated value	25 A		
— at 220 V per NC contact Rated value	2.5 A		
— at 220 V per NO contact Rated value	5 A		
— at 24 V per NC contact Rated value	50 A		

— at 24 V per NO contact Rated value	50 A		
— at 440 V per NC contact Rated value	0.135 A		
— at 440 V per NO contact Rated value	0.27 A		
Operating power			
• at AC-2 at AC-3			
— at 230 V per NC contact Rated value	9.5 kW		
— at 230 V per NO contact Rated value	9.5 kW		
— at 400 V per NC contact Rated value	18.5 kW		
— at 400 V per NO contact Rated value	18.5 kW		
Active power loss at AC-3 at 400 V for rated value of	2.6 W		
the operating current per conductor			
Operating frequency			
• at AC-1 maximum	1 000 1/h		
Control circuit/ Control:			
Type of voltage of the control supply voltage	AC		
Control supply voltage with AC			
• at 50 Hz Rated value	230 V		
Operating range factor control supply voltage rated value of the magnet coil with AC			
● at 50 Hz	0.8 1.1		
Apparent pick-up power of the magnet coil with AC	145 V·A		
● at 50 Hz	145 V·A		
Inductive power factor with closing power of the coil	0.79		
● at 50 Hz	0.79		
Apparent holding power of the magnet coil with AC	12.5 V·A		
● at 50 Hz	12.5 V·A		
Inductive power factor with the holding power of the coil	0.36		
● at 60 Hz	0.36		
Closing delay			
• with AC	4 35 ms		
• for DC	50 110 ms		

Auxiliary circuit:	
Number of NC contacts	
 for auxiliary contacts 	
 instantaneous contact 	0
Number of NO contacts	

0.018 A

10 ... 15 ms

conventional

Arcing time

signal <0>

Control version of the switch operating mechanism

Residual current of the electronics for control with

• with AC at 230 V maximum permissible

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 the auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)

Design of the fuse link • for short-circuit protection of the main circuit The short of the fuse link The shor

— with type of assignment 1 required
 — with type of assignment 2 required
 fuse gL/gG: 160 A
 fuse gL/gG: 80 A
 fuse gL/gG: 10 A

Installation/ mounting/ dimensions:				
mounting position	with vertical mounting surface +/-180° rotatable, with vertical			
	mounting surface +/- 30° tiltable to the front and back			
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	73 mm			
Depth	115 mm			
Required spacing				
 for grounded parts 				
— at the side	6 mm			

Type of electrical connection • for main current circuit • for auxiliary and control current circuit Type of connectable conductor cross-section • for main contacts

required

— 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)
— 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)
 for AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12

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General Prod	luct Approval		Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
(S)	(UL)	EAC	Type Examination	EG-Konf.	Special Test Certificate

Shipping Approval







GL







other

Confirmation

Environmental Confirmations

other

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