SIEMENS

Data sheet

3RT1035-1AP64



CONTACTOR, AC-3 18,5 KW/400 V, AC 220V 50HZ/240V 60HZ 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- compatible auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
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

-55 ... +80 °C • during storage Main 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 **Operating current** • at AC-1 at 400 V 60 A - at ambient temperature 40 °C Rated value • at AC-1 up to 690 V 60 A - at ambient temperature 40 °C Rated value 55 A - at ambient temperature 60 °C Rated value • at AC-3 40 A - at 400 V Rated value - at 690 V Rated value 24 A • at AC-4 at 400 V Rated value 35 A Operating current for ≥ 200000 operating cycles at AC-4 18.5 A • at 400 V Rated value 12.6 A • at 690 V Rated value **Operating current** • with 1 current path at DC-1 55 A - at 24 V Rated value 4.5 A - at 110 V Rated value • with 2 current paths in series at DC-1 55 A - at 24 V Rated value 25 A - at 110 V Rated value with 3 current paths in series at DC-1 55 A - at 24 V Rated value 55 A - at 110 V Rated value **Operating current** • with 1 current path at DC-3 at DC-5 35 A - at 24 V Rated value - 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 55 A - at 24 V Rated value • 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	9.5 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	2.6 W
the operating current per conductor	
No-load switching frequency	
• with AC	5 000 1/h
Operating frequency	
• at AC-1 maximum	1 200 1/h
• at AC-2 maximum	600 1/h
• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control:	
Type of voltage of the control supply voltage	AC
Control supply voltage with AC	
• at 50 Hz Rated value	220 V
• at 60 Hz Rated value	240 V
Rated value	50 Hz
Control supply voltage frequency 2 Rated value	60 Hz
Operating range factor control supply voltage rated value of the magnet coil with AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
Apparent pick-up power of the magnet coil with AC	166 V·A
Inductive power factor with closing power of the coil	0.71
Apparent holding power of the magnet coil with AC	12.6 V·A
Inductive power factor with the holding power of the coil	0.37
Closing delay	
• with AC	10 24 ms
Arcing time	10 15 ms
Auxiliary circuit:	
Number of NC contacts	
 for auxiliary contacts 	

— instantaneous contact	2
Number of NO contacts	
for auxiliary contacts	
— 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 100 V Rated value	3 A
	1A
at 220 V Rated value	
Operating current at DC-13	40.4
• 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	
Design of the fuse linkfor short-circuit protection of the main circuit	func al /aC: 135 A
 Design of the fuse link for short-circuit protection of the main circuit — with type of assignment 1 required 	fuse gL/gG: 125 A
Design of the fuse link for short-circuit protection of the main circuit with type of assignment 1 required with type of assignment 2 required 	fuse gL/gG: 63 A
 Design of the fuse link for short-circuit protection of the main circuit with type of assignment 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch 	
 Design of the fuse link for short-circuit protection of the main circuit with type of assignment 1 required with type of assignment 2 required 	fuse gL/gG: 63 A
 Design of the fuse link for short-circuit protection of the main circuit with type of assignment 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch 	fuse gL/gG: 63 A
 Design of the fuse link for short-circuit protection of the main circuit with type of assignment 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 63 A
 Design of the fuse link for short-circuit protection of the main circuit with type of assignment 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions:	fuse gL/gG: 63 A fuse gL/gG: 10 A screw and snap-on mounting onto 35 mm standard mounting rail
 Design of the fuse link for short-circuit protection of the main circuit with type of assignment 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting type	fuse gL/gG: 63 A fuse gL/gG: 10 A screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting	fuse gL/gG: 63 A fuse gL/gG: 10 A screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes
Design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height	fuse gL/gG: 63 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
Design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width	fuse gL/gG: 63 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
Design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth	fuse gL/gG: 63 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
Design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing	fuse gL/gG: 63 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
Design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts	fuse gL/gG: 63 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 164 mm
Design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side	fuse gL/gG: 63 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 164 mm
Design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals:	fuse gL/gG: 63 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 164 mm
Design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection	fuse gL/gG: 63 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 164 mm 6 mm

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:

General Produc	ct Approval		Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
CSA CSA		EHC	Type Examination	EG-Konf.	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>
Test Certificates	Shipping Ap	proval		_	
Special Test Certificate	ABS		GL	Lloyd's Register LRS	RINA

Shipping Approval	other			
RMRS	<u>Confirmation</u>	other	Environmental Confirmations	

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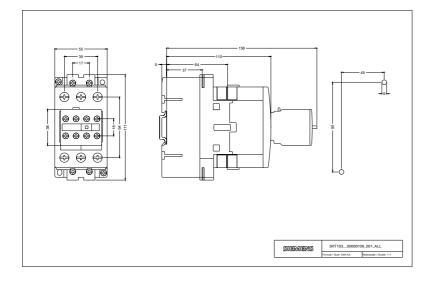
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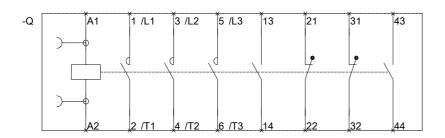
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