SIEMENS

Data sheet 3RT1035-1AF00



CONTACTOR, AC-3 18.5 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

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 • at 60 °C minimum permissible • at 40 °C minimum permissible 16 mm² Operating current • at AC-1 at 400 V — at ambient temperature 40 °C Rated value • at AC-1 at 400 V — at ambient temperature 40 °C Rated value • at AC-1 up to 690 V — at ambient temperature 40 °C Rated value • at AC-3 — at 400 V Rated value — at an 400 V Rated value — at 900 V Rated value — at 900 V Rated value — at 900 V Rated value • at AC-4 at 400 V Rated value • at 690 V Rated value • at 690 V Rated value • at 690 V Rated value • at 690 V Rated value • at 100 V Rated value • at 100 V Rated value • at 24 V Rated value • at 110 V Rated value • with 1 current path at DC-1 — at 24 V Rated value — at 110 V Rated value • with 2 current paths in series at DC-1 — at 24 V Rated value • with 3 current paths in series at DC-1 — at 24 V Rated value • with 3 current paths in series at DC-1 — at 24 V Rated value • with 3 current paths in series at DC-1 — at 24 V Rated value • with 1 Current paths in series at DC-1 — at 24 V Rated value • with 1 V Rated value • 55 A Operating current • with 1 Current path in series at DC-3 — at 24 V Rated value - at 110 V Rated value - at 24 V Raten value - at 110 V Rated value - at 110 V Rated value - at 25 A • with 1 current paths in series at DC-3 at DC-5 — at 24 V Rated value - at 110 V Rated value - at 110 V Rated value - at 110 V Rated value - at 25 A • with 2 current paths in series at DC-3 at DC-5 — at 24 V Rated value - at 110 V Rated value - at 110 V Rated value - at 25 A • with 2 current paths in series at DC-3 at DC-5 — at 24 V Rated value - at 24 V Rated	Main circuit:	
Number of NO contacts for main contacts Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible Operating current • at AC-1 at 400 V — at ambient temperature 40 °C Rated value • at AC-1 up to 690 V — at ambient temperature 40 °C Rated value — at ambient temperature 40 °C Rated value — at ambient temperature 60 °C Rated value — at anbient temperature 60 °C Rated value — at 400 V Rated value — at 690 V Rated value — at 690 V Rated value • at AC-3 — at 400 V Rated value • at 690 V Rated value • at 100 V Rated value • at 690 V Rated value • at 100 V Rated value • at 500 V Rated value • at 500 V Rated value • at 110 V Rated value • with 1 current path at DC-1 — at 24 V Rated value • with 2 current paths in series at DC-1 — at 24 V Rated value • with 3 current paths in series at DC-1 — at 24 V Rated value • with 3 current paths in series at DC-1 — at 24 V Rated value • with 1 current path at DC-3 at DC-5 — at 24 V Rated value • with 1 current path at DC-3 at DC-5 — at 24 V Rated value • xith 1 current path in series at DC-5 — at 24 V Rated value • xith 1 current path in series at DC-5 — at 24 V Rated value • xith 1 current path in series at DC-3 at DC-5 — at 24 V Rated value • xith 2 current path in series at DC-3 at DC-5 — at 110 V Rated value • xith 2 current path in series at DC-3 at DC-5 — at 110 V Rated value • xith 2 current paths in series at DC-3 at DC-5 — at 24 V Rated value • xith 2 current paths in series at DC-3 at DC-5 — at 110 V Rated value • xith 2 current paths in series at DC-3 at DC-5 — at 110 V Rated value • xith 2 current paths in series at DC-3 at DC-5 — at 24 V Rated value • xith 2 current paths in series at DC-3 at DC-5 — at 24 V Rated value • xith 2 current paths in series at DC-3 at DC-5 — at 24 V Rated value • xith 2 current pa	Number of poles for main current circuit	3
Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible • at AC-1 at 400 V — at ambient temperature 40 °C Rated value • at AC-1 up to 690 V — at ambient temperature 40 °C Rated value • at AC-3 — at ambient temperature 60 °C Rated value • at AC-3 — at 400 V Rated value — at 690 V Rated value • at AC-4 at 400 V Rated value • at AC-4 at 400 V Rated value • at AC-4 at 400 V Rated value • at 40-4 at 400 V Rated value • at 40-4 at 400 V Rated value • at 400 V Rated value • at 690 V Rated value • at 400 V Rated value • at 400 V Rated value • at 400 V Rated value • at 400 V Rated value • at 400 V Rated value • at 400 V Rated value • at 24 V Rated value • at 24 V Rated value • with 1 current path at DC-1 — at 24 V Rated value • with 2 current paths in series at DC-1 — at 24 V Rated value • with 3 current paths in series at DC-1 — at 24 V Rated value • with 3 current paths in series at DC-1 — at 24 V Rated value • with 3 current path at DC-3 at DC-5 — at 110 V Rated value • with 1 current path at DC-3 at DC-5 — at 24 V Rated value • with 2 Current path in series at DC-3 at DC-5 — at 110 V Rated value • with 2 Current paths in series at DC-3 at DC-5 — at 110 V Rated value • with 2 Current path in series at DC-3 at DC-5 — at 110 V Rated value • with 2 Current paths in series at DC-3 at DC-5 — at 110 V Rated value • 25 A	Number of NC contacts for main contacts	0
at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible 16 mm² Operating current • at AC-1 at 400 V — at ambient temperature 40 °C Rated value • at AC-1 at 400 V — at ambient temperature 40 °C Rated value • at AC-1 up to 690 V — at ambient temperature 60 °C Rated value — at ambient temperature 60 °C Rated value — at ambient temperature 60 °C Rated value — at 400 V Rated value — at 690 V Rated value • at AC-3 — at 400 V Rated value • at AC-4 at 400 V Rated value • at AC-4 at 400 V Rated value • at AC-4 at 400 V Rated value • at 690 V Rated value • at 690 V Rated value • at 690 V Rated value • at 400 V Rated value • at 110 V Rated value — at 24 V Rated value — at 24 V Rated value — at 110 V Rated value — at 110 V Rated value — at 110 V Rated value — at 24 V Rated value — at 25 A • with 2 current paths in series at DC-5 — at 24 V Rated value — at 25 A • with 2 current paths in series at DC-3 at DC-5 — at 24 V Rated value • with 2 current paths in series at DC-3 at DC-5 — at 24 V Rated value • with 2 current paths in series at DC-3 at DC-5 — at 24 V Rated value • with 2 current paths in series at DC-3 at DC-5 — at 24 V Rated value • with 2 current paths in series at DC-3 at DC-5 — at 24 V Rated value • 35 A	Number of NO contacts for main contacts	3
■ at 40 °C minimum permissible ■ at 40 °C minimum permissible ■ at 40 °C minimum permissible □ at AC-1 at 400 V — at ambient temperature 40 °C Rated value ■ at AC-1 up to 690 V — at ambient temperature 40 °C Rated value — at ambient temperature 60 °C Rated value — at 400 V Rated value — at 400 V Rated value ④ at AC-3 — at 400 V Rated value ④ at AC-4 at 400 V Rated value ④ at AC-4 at 400 V Rated value ⑤ A Operating current for ≥ 200000 operating cycles at AC-4 ● at 400 V Rated value ● at 690 V Rated value ● at 110 V Rated value ○ at 24 V Rated value ─ at 21 V Rated value ─ at 110 V Rated value ○ at 24 V Rated value ○ at 110 V Rated value ○ at 24 V Rated value ○ at 110 V Rated value ○ at 110 V Rated value ○ at 110 V Rated value ○ at 124 V Rated value ○ at 110 V Rated value ○ at 24 V Rated value ○ at 110 V R	Connectable conductor cross-section in main circuit	
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- at ambient temperature 40 °C Rated value - at ambient temperature 60 °C Rated value 55 A • at AC-3 - at 400 V Rated value - at 690 V Rated value 35 A Operating current for ≥ 200000 operating cycles at AC-4 • at 400 V Rated value 18.5 A • at 690 V Rated value 18.5 A • at 690 V Rated value • at 400 V Rated value 19.5 A Operating current • with 1 current path at DC-1 - at 24 V Rated value - at 110 V Rated value - at 24 V Rated value - at 24 V Rated value - at 25 A • with 3 current paths in series at DC-1 - at 24 V Rated value - at 24 V Rated value - at 24 V Rated value - at 110 V Rated value - at 110 V Rated value - 25 A Operating current • with 1 current path at DC-3 at DC-5 - at 24 V Rated value - at 110 V Rated value - at 24 V Rated value	— at ambient temperature 40 °C Rated value	60 A
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 with 3 current paths in series at DC-1 — at 24 V Rated value — at 110 V Rated value 55 A Operating current • with 1 current path at DC-3 at DC-5 — at 24 V Rated value — at 110 V Rated value 35 A 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 	— at 24 V Rated value	55 A
 — at 24 V Rated value — at 110 V Rated value 55 A Operating current • with 1 current path at DC-3 at DC-5 — at 24 V Rated value — at 110 V Rated value • 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 	— at 110 V Rated value	25 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-1	
Operating current • with 1 current path at DC-3 at DC-5 — at 24 V Rated value — at 110 V Rated value • 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	— at 24 V Rated value	55 A
 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 	— at 110 V Rated value	55 A
 — at 24 V Rated value — at 110 V Rated value • with 2 current paths in series at DC-3 at DC-5 — at 110 V Rated value — at 24 V Rated value 55 A 	Operating current	
 — at 110 V Rated value ● with 2 current paths in series at DC-3 at DC-5 — at 110 V Rated value — at 24 V Rated value 55 A 	• with 1 current path at DC-3 at DC-5	
 with 2 current paths in series at DC-3 at DC-5 — at 110 V Rated value — at 24 V Rated value 55 A 	— at 24 V Rated value	35 A
 — at 110 V Rated value — at 24 V Rated value 55 A 	— at 110 V Rated value	2.5 A
— at 24 V Rated value 55 A	• with 2 current paths in series at DC-3 at DC-5	
	— at 110 V Rated value	25 A
		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	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:	A.O.
Type of voltage of the control supply voltage	AC
Control supply voltage with AC	
Control supply voltage with AC • at 50 Hz Rated value	110 V
Control supply voltage with AC	
Control supply voltage with AC • at 50 Hz Rated value • Rated value Operating range factor control supply voltage rated	110 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	110 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	110 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	110 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	110 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	110 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	110 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	110 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	110 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	110 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	110 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	110 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	110 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	110 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	110 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	110 V 50 Hz 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		
A000 / Q000		
fuse gL/gG: 125 A		
fuse gL/gG: 63 A		
fuse gL/gG: 10 A		
fuse gL/gG: 10 A		
fuse gL/gG: 10 A screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022		
screw and snap-on mounting onto 35 mm standard mounting rail		
screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022		
screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes		
screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 112 mm		
screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 112 mm 55 mm		
screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 112 mm 55 mm		
screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 112 mm 55 mm		
screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 112 mm 55 mm 115 mm		
screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 112 mm 55 mm 115 mm		
screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 112 mm 55 mm 115 mm		
screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 112 mm 55 mm 115 mm		
screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 112 mm 55 mm 115 mm		
screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 112 mm 55 mm 115 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/	approvals:
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General Pro	duct Approval		Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
(F)	EHC	(H)	Type Examination	CE EG-Konf.	Special Test Certificate

Test	Shipping Approval
Certificates	

Type Test Certificates/Test Report







GL





Shipping	other	
Approval		



Confirmation

Environmental Confirmations

other

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10351AF00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT10351AF00



