SIEMENS

Data sheet

3RT1036-1AH04



CONTACTOR, AC-3 22 KW/400 V, AC 48 V, 50 HZ, 2 NO + 2 NC, 3-POLE, SIZE S2, SCREW CONNECTION

i igure sirillar	
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 maximum	2 000 m
Ambient temperature	
• during operation	-25 +60 °C

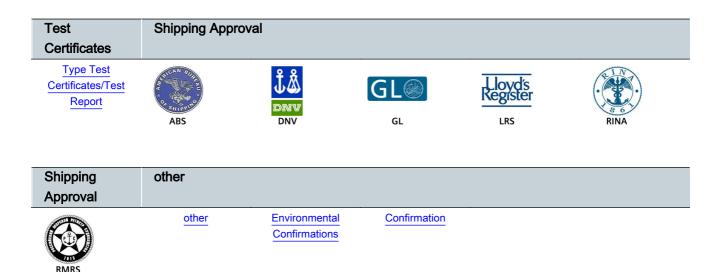
-55 ... +80 °C • during storage Main circuit: Number of poles for main current circuit 3 Number of NC contacts for main contacts 0 Number of NO contacts for main contacts 3 Connectable conductor cross-section in main circuit at AC-1 16 mm² • at 60 °C minimum permissible 16 mm² • at 40 °C minimum permissible **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 50 A - at 400 V Rated value - 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 24 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	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
Control circuit/ Control:	
Type of voltage of the control supply voltage	AC
Control supply voltage with AC	
• at 50 Hz Rated value	48 V
Rated value	50 Hz
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
Inductive power factor with closing power of the coil	0.79
Apparent holding power of the magnet coil with AC	12.5 V·A
Inductive power factor with the holding power of the coil	0.36
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 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
	2 A
• at 60 V Rated value	1 A
• at 110 V Rated value	
• 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
	fuse gL/gG: 10 A
 for short-circuit protection of the auxiliary switch required 	
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 processing 	2x (0.75 16 mm²)
 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 Prod	uct Approval		Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates			
CSA		EHC	Type Examination	EG-Konf.	Special Test Certificate			



 Further Information

 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=3RT10361AH04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT10361AH04

