

CONTACTOR, 200KW/400V/AC-3 AC(40...60HZ)/DC OPERATION
UC 96-127V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S12
BAR CONNECTIONS ELECTRONIC OPERATING MECHANISM
WITH 24V DC PLC INTERFACE SCREW TERMINAL



Figure similar

product brandname	SIRIUS
Product designation	power contactor
General technical data	
Size of contactor	S12
Insulation voltage	
• rated value	1 000 V
Degree of pollution	3
Surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
• between coil and main contacts acc. to EN 60947-1	690 V
Protection class IP	
• on the front	IP00
• of the terminal	IP00
Shock resistance	
• at rectangular impulse	
— at AC	8,5g / 5 ms, 4,2g / 10 ms

— at DC	8,5g / 5 ms, 4,2g / 10 ms
• with sine pulse	
— at AC	13,4g / 5 ms, 6,5g / 10 ms
— at DC	13,4g / 5 ms, 6,5g / 10 ms
Mechanical service life (switching cycles)	
• of 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
Ambient conditions	
Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-55 ... +80 °C
Main circuit	
Number of poles for main current circuit	3
Number of NO contacts for main contacts	3
Number of NC contacts for main contacts	0
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	430 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	430 A
— up to 690 V at ambient temperature 60 °C rated value	400 A
— up to 1000 V at ambient temperature 40 °C rated value	200 A
— up to 1000 V at ambient temperature 60 °C rated value	200 A
• at AC-3	
— at 400 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	240 mm ²
• at 40 °C minimum permissible	300 mm ²
Operating current for approx. 200000 operating cycles at AC-4	

• at 400 V rated value	150 A
• at 690 V rated value	135 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	400 A
— at 110 V rated value	33 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
• with 3 current paths in series at DC-1	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	400 A
— at 110 V rated value	3 A
• with 2 current paths in series at DC-3 at DC-5	
— at 110 V rated value	400 A
— at 24 V rated value	400 A
• with 3 current paths in series at DC-3 at DC-5	
— at 110 V rated value	400 A
— at 24 V rated value	400 A
Operating power	
• at AC-1	
— at 230 V at 60 °C rated value	151 kW
— at 400 V rated value	263 kW
— at 690 V rated value	454 kW
— at 690 V at 60 °C rated value	454 kW
— at 1000 V at 60 °C rated value	329 W
• at AC-2 at 400 V rated value	231 kW
• at AC-3	
— at 230 V rated value	132 kW
— at 400 V rated value	200 kW
— at 500 V rated value	291 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 W
Operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	85 kW
• at 690 V rated value	133 kW
Thermal short-time current limited to 10 s	3 200 A

Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	35 W
No-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
Operating frequency	
• at AC-1 maximum	700 1/h
• at AC-2 maximum	200 1/h
• at AC-3 maximum	500 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control	
Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	
• at 50 Hz rated value	96 ... 127 V
• at 60 Hz rated value	96 ... 127 V
Control supply voltage at DC	
• rated value	96 ... 127 V
Control supply voltage frequency 1 rated value	50 Hz
Control supply voltage frequency 2 rated value	60 Hz
Operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 ... 1.1
• at 60 Hz	0.8 ... 1.1
Operating range factor control supply voltage rated value of magnet coil at DC	0.8 ... 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of magnet coil at AC	750 V·A
Inductive power factor with closing power of the coil	0.8
Apparent holding power of magnet coil at AC	9 V·A
Inductive power factor with the holding power of the coil	0.4
Closing power of magnet coil at DC	800 W
Holding power of magnet coil at DC	3.6 W
Closing delay	
• at AC	60 ... 90 ms
• at DC	60 ... 90 ms
Opening delay	
• at AC	80 ... 100 ms
• at DC	80 ... 100 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
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 220 V rated value	0.3 A

UL/CSA ratings	
Contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
Design of the fuse link	
• for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required	fuse gL/gG: 630 A fuse gL/gG: 500 A
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A

Installation/ mounting/ dimensions	
Mounting type	screw fixing
• Side-by-side mounting	Yes
Height	214 mm
Width	160 mm
Depth	225 mm
Required spacing	
• for grounded parts — at the side	10 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-sections	

• at AWG conductors for main contacts	2/0 ... 500 kcmil
Type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), max. 2x (0.75 ... 4 mm ²)
— finely stranded with core end processing	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
• at AWG conductors for auxiliary contacts	2x (20 ... 16), 2x (18 ... 14), 1x 12

Certificates/approvals

General Product Approval	Declaration of Conformity	Test Certificates
--------------------------	---------------------------	-------------------



CCC



CSA



UL



EG-Konf.

[Typprüfbescheinigung/Werkszeugnis](#)

Test Certificates	Shipping Approval	other
-------------------	-------------------	-------

[spezielle](#)

[Prüfbescheinigungen](#)

n



ABS



DNV



GL



RMRS

[Bestätigungen](#)

other

[Umweltbestätigung](#)

[sonstig](#)

Further information

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1075-6NF36>

Cax online generator

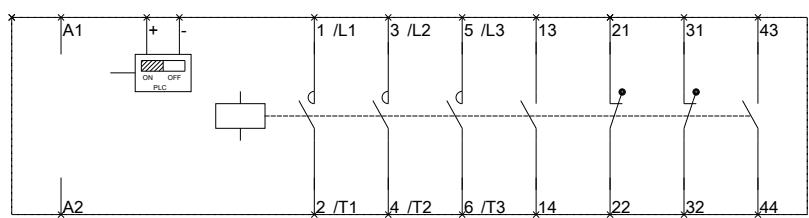
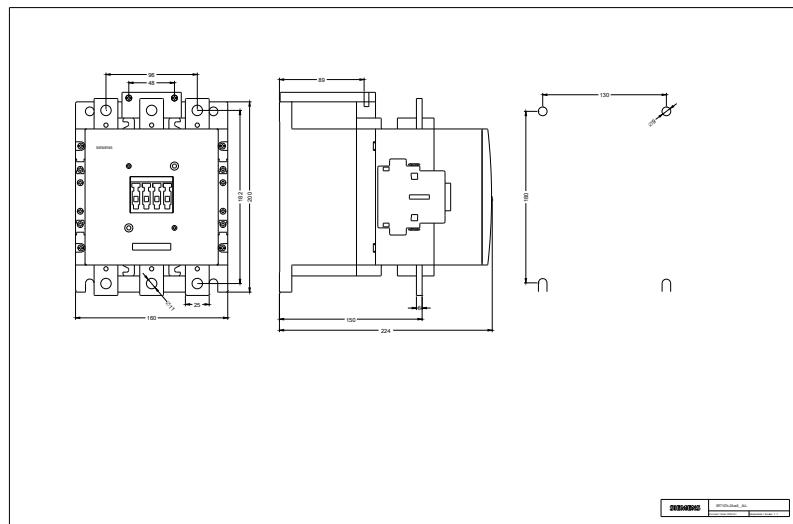
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1075-6NF36>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6NF36>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1075-6NF36&lang=en



last modified:

12/26/2016