Data sheet

CONTACTOR, AC-3 22 KW/400 V, AC 230 V, 50 HZ, 3-POLE, SIZE S2, SCREW CONNECTION REUSABLE PACKING PACKING = 30 ITEMS



Figure similar

SIRIUS
power contactor
S2
690 V
3
6 kV
400 V
IP00
IP00
10g / 5 ms, 5g / 10 ms

with sine pulse	
— at AC	15g / 5 ms, 8g / 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	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	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	60 A
● at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	60 A
 up to 690 V at ambient temperature 60 °C rated value 	55 A
• at AC-3	
— at 400 V rated value	50 A
— at 690 V rated value	24 A
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 for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	24 A
• at 690 V rated value	12.6 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
• with 2 current paths in series at DC-1	

— at 24 V rated value	55 A
— at 110 V rated value	25 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
Operating current	
 at 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-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 400 V rated value	38 kW
— at 690 V rated value	66 kW
— at 690 V at 60 °C rated value	66 kW
• at AC-2 at 400 V rated value	22 kW
● at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	22 kW
Operating power for approx. 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 limited to 10 s	400 A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	5 W
No-load switching frequency	
• at 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 at AC	
● at 50 Hz rated value	230 V
Control supply voltage frequency 1 rated value	50 Hz
Operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
Apparent pick-up power of magnet coil at AC	145 V·A
Inductive power factor with closing power of the coil	0.79
Apparent holding power of magnet coil at AC	12.5 V·A
Inductive power factor with the holding power of the coil	0.36
Closing delay	
• at AC	10 24 ms
Opening delay	
• at AC	7 20 ms
Arcing time	10 15 ms
Auxiliary circuit	
Number of NC contacts	
for auxiliary contacts	
instantaneous contact	0
Number of NO contacts	
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 auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
Contact rating of auxiliary contacts according to UL	A600 / Q600

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

• for short-circuit protection of the auxiliary switch

fuse gL/gG: 80 A fuse gL/gG: 10 A

fuse gL/gG: 160 A

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	115 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-sections

• for main contacts

- solid 2x (0.75 ... 16 mm²) 2x (0.75 ... 25 mm²) - stranded 2x (0,75 ... 16 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

• at AWG conductors for main contacts 2x (18 ... 2)

Type of connectable conductor cross-sections

• for auxiliary contacts

 $2x (0.5 \dots 1.5 \text{ mm}^2), 2x (0.75 \dots 2.5 \text{ mm}^2), \text{ max. } 2x (0.75 \dots 4 \text{ mm}^2)$ - solid

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) - finely stranded with core end processing

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

General Product Approval

Declaration of Conformity

Test Certificates

Shipping Approval







spezielle Prüfbescheinigunge n Typprüfbescheinigu ng/Werkszeugnis



Shipping Approval

other











sonstig

other

Bestätigungen Umweltbestätigung

Further information

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

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

Industry Mall (Online ordering system)

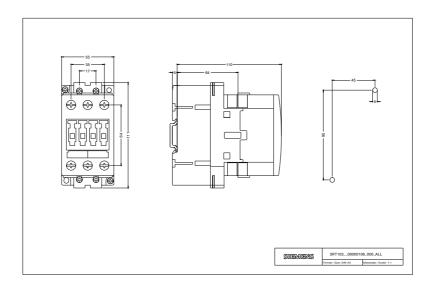
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1036-1AP00-Z X95

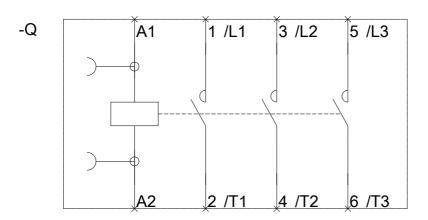
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1036-1AP00-Z X95

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1036-1AP00-Z X95

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1036-1AP00-Z X95&lang=en





last modified: 10/19/2016