SIEMENS

Data sheet 3RT1476-6AP36

CONTACTOR, 690A/AC-1 AC(40...60HZ)/DC OPERATION UC 220-240V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S12 BAR CONNECTIONS CONVENT. OPERATING MECHANISM



Figure similar

SIRIUS
power contactor
S12
1 000 V
3
8 kV
690 V
IP00
IP00
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	

2 000 m

maximum	
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	690 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	690 A
 up to 690 V at ambient temperature 60 °C rated value 	650 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	250 A
— up to 1000 V at ambient temperature 60 °C rated value	250 A
• at AC-3	
— at 400 V rated value	170 A
— at 690 V rated value	170 A
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	370 mm²
• at 40 °C minimum permissible	370 mm²
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	500 A

Installation altitude at height above sea level

— at 110 V rated value	33 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	500 A
— at 110 V rated value	500 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	500 A
— at 110 V rated value	500 A
Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	500 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	500 A
— at 24 V rated value	500 A
• with 3 current paths in series at DC-3 at DC-5	
— at 110 V rated value	500 A
— at 24 V rated value	500 A
Operating power	
● at AC-1	
— at 230 V at 60 °C rated value	245 kW
— at 400 V rated value	430 kW
— at 690 V rated value	740 kW
— at 690 V at 60 °C rated value	740 kW
— at 1000 V at 60 °C rated value	410 W
● at AC-2 at 400 V rated value	90 kW
• at AC-3	
— at 230 V rated value	160 kW
— at 400 V rated value	90 kW
— at 500 V rated value	110 kW
— at 690 V rated value	160 kW
Thermal short-time current limited to 10 s	4 000 A
Power loss [W] at AC-3 at 400 V for rated value of	55 W
the operating current per conductor	
No-load switching frequency	2 000 1/b
• at AC	2 000 1/h 2 000 1/h
at DC Operating frequency	2 000 1/11
at AC-1 maximum	700 1/h
- at AO-1 maximum	700 1/11
Control circuit/ Control	
Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	

• at 50 Hz rated value	220 240 V
• at 60 Hz rated value	220 240 V
Control supply voltage at DC	
• rated value	220 240 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	830 V·A
Inductive power factor with closing power of the coil	0.9
Apparent holding power of magnet coil at AC	9.2 V·A
Inductive power factor with the holding power of the	0.9
coil	020 W
Closing power of magnet coil at DC Holding power of magnet coil at DC	920 W 10 W
Closing delay	10 VV
• at AC	45 100 ms
	45 100 ms
• at DC	43 100 1115
Opening delay	60 100 ms
• at AC	60 100 ms
• at DC	
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: 800 A
 fuse gR: 710 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	

Type of electrical connection
Connections/Terminals

• for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	screw-type terminals

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Type of connectable conductor cross-sections

• at AWG conductors for main contacts

Type of connectable conductor cross-sections

for auxiliary contacts

— solid 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)

2/0 ... 500 kcmil

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

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

Certificates/approvals

General Product Approval

Declaration of Conformity

Test Certificates











spezielle Prüfbescheinigunge

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Certificates	

Shipping Approval

other

sonstig









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=3RT1476-6AP36

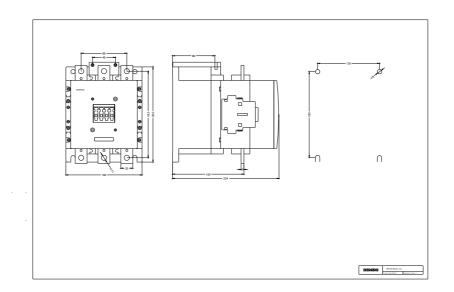
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1476-6AP36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1476-6AP36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1476-6AP36&lang=en





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