SIEMENS

Data sheet

3RT1476-6AF36

CONTACTOR, 690A/AC-1 AC(40...60HZ)/DC OPERATION UC 110-127V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S12 BAR CONNECTIONS CONVENT. OPERATING MECHANISM



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 	690 V			
60947-1				
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- 	5 000 000			
compatible auxiliary switch block typical				
 of the contactor with added auxiliary switch 	10 000 000			
block typical				
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			
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 °C	690 A			
rated value				
— up to 690 V at ambient temperature 60 °C	650 A			
rated value				
— up to 1000 V at ambient temperature 40 °C	250 A			
rated value				
— up to 1000 V at ambient temperature 60 °C	250 A			
rated value at AC-3 				
	170 A			
— at 400 V rated value	170 A			
— at 690 V rated value	INDA			
Connectable conductor cross-section in main circuit at AC-1				
• at 60 °C minimum permissible	370 mm²			
• at 40 °C minimum permissible	370 mm ²			
Operating current				
• at 1 current path at DC-1				
— at 24 V rated value	500 A			
- al 24 V Taleu Value				

— 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 4/h
• at AC	2 000 1/h
• at DC	2 000 1/h
Operating frequency	700 1/h
• at AC-1 maximum	
Control circuit/ Control	
Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	

• at 50 Hz rated value	110 127 V
• at 60 Hz rated value	110 127 V
Control supply voltage at DC	
rated value	110 127 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	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 coil	0.9
Closing power of magnet coil at DC	920 W
Holding power of magnet coil at DC	10 W
Closing delay	
• at AC	45 100 ms
• at DC	45 100 ms
Opening delay	
• at AC	60 100 ms
• at DC	60 100 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 	fuse gL/gG: 800 A		
 — with type of assignment 2 required 	fuse gR: 710 A		
• for short-circuit protection of the auxiliary switch	fuse gL/gG: 10 A		
required			
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 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)		
• at AWG conductors for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12		
Certificates/approvals			

General Produc	t Approval			Declaration of	Test
				Conformity	Certificates
	CSA		EHC	EG-Konf.	spezielle Prüfbescheinigunge <u>n</u>
Test Certificates	Shipping Appr	oval			other
<u>sonstig</u>	ABS	DNV DNV	GL	RMRS	Bestätigungen
other					
sonstig	Umweltbestätigung	<u>]</u>			

urther information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

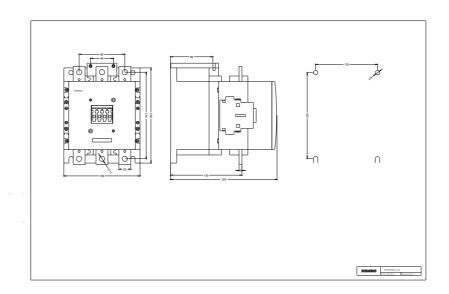
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1476-6AF36

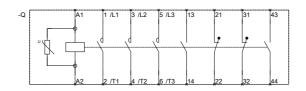
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http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1476-6AF36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1476-6AF36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1476-6AF36&lang=en





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