SIEMENS

Data sheet 3RT1476-6AD36



CONTACTOR, 690A/AC-1 AC(40...60HZ)/DC OPERATION UC 42-48V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S12 BAR CONNECTIONS CONVENT. OPERATING MECHANISM

Figure similar

product brand name	SIRIUS
Product designation	power contactor

Insulation voltage • Rated value V 1 000 Degree of pollution Surge voltage resistance Rated value kV 8 Mechanical service life (switching cycles) • of the contactor typical • of the contactor with added electronics-compatible auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the terminal short-time current restricted to 10 s A 4 000 Protection class IP • on the front • of the terminal Equipment marking • acc. to DIN EN 61346-2 • acc. to DIN EN 81346-2 • acc. to DIN EN 81346-2	General technical data:		
Degree of pollution Surge voltage resistance Rated value Mechanical service life (switching cycles) of the contactor typical of the contactor with added electronics- compatible auxiliary switch block typical of the contactor with added auxiliary switch block typical Thermal short-time current restricted to 10 s Protection class IP on the front of the terminal Equipment marking acc. to DIN EN 61346-2	Insulation voltage		
Surge voltage resistance Rated value Mechanical service life (switching cycles) of the contactor typical of the contactor with added electronics-compatible auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical Thermal short-time current restricted to 10 s Protection class IP on the front of the terminal Equipment marking acc. to DIN EN 61346-2	Rated value	V	1 000
Mechanical service life (switching cycles) • of the contactor typical • of the contactor with added electronics- compatible auxiliary switch block typical • of the contactor with added auxiliary switch block typical Thermal short-time current restricted to 10 s Protection class IP • on the front • of the terminal Equipment marking • acc. to DIN EN 61346-2	Degree of pollution		3
of the contactor typical of the contactor with added electronics-compatible auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical Thermal short-time current restricted to 10 s Protection class IP on the front of the terminal Equipment marking acc. to DIN EN 61346-2	Surge voltage resistance Rated value	kV	8
of the contactor with added electronics- compatible auxiliary switch block typical of the contactor with added auxiliary switch block typical Thermal short-time current restricted to 10 s Protection class IP on the front of the terminal Equipment marking acc. to DIN EN 61346-2 5 000 000 10 000 10 000 000 10 000 000	Mechanical service life (switching cycles)		
compatible auxiliary switch block typical of the contactor with added auxiliary switch block typical Thermal short-time current restricted to 10 s Protection class IP on the front of the terminal Equipment marking acc. to DIN EN 61346-2	 of the contactor typical 		10 000 000
block typical Thermal short-time current restricted to 10 s Protection class IP on the front of the terminal Equipment marking acc. to DIN EN 61346-2			5 000 000
Protection class IP	•		10 000 000
 on the front of the terminal Equipment marking acc. to DIN EN 61346-2 Q 	Thermal short-time current restricted to 10 s	Α	4 000
of the terminal IP00 Equipment marking acc. to DIN EN 61346-2 Q Q	Protection class IP		
Equipment marking ● acc. to DIN EN 61346-2 Q	• on the front		IP00
• acc. to DIN EN 61346-2	 of the terminal 		IP00
3	Equipment marking		
• acc. to DIN EN 81346-2	• acc. to DIN EN 61346-2		Q
	● acc. to DIN EN 81346-2		Q

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	
Operating current		

• at AC-1		
— at 400 V at ambient temperature 40 °C	Α	690
Rated value		222
 up to 690 V at ambient temperature 40 °C Rated value 	Α	690
— up to 690 V at ambient temperature 60 °C	Α	650
Rated value	, ,	
• at AC-3		
— at 400 V Rated value	Α	170
— at 690 V Rated value	Α	170
Operating current with 1 current path		
• at DC-1		
— at 24 V Rated value	Α	500
— at 110 V Rated value	Α	33
• at DC-3 at DC-5		
— at 24 V Rated value	Α	500
— at 110 V Rated value	Α	3
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	500
— at 110 V Rated value	Α	500
• at DC-3 at DC-5		
— at 110 V Rated value	Α	500
— at 24 V Rated value	Α	500
Operating current with 3 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	500
— at 110 V Rated value	Α	500
• at DC-3 at DC-5		
— at 110 V Rated value	Α	500
— at 24 V Rated value	Α	500
Operating power		
• at AC-1 at 400 V Rated value	kW	430
• at AC-2 at 400 V Rated value	kW	90
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	245
— at 690 V at 60 °C Rated value	kW	740
— at 690 V Rated value	kW	740
• at AC-3		
— at 230 V Rated value	kW	160
— at 400 V Rated value	kW	90

— at 500 V Rated value	kW	110
— at 690 V Rated value	kW	160

Control circuit/ Control:		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage with AC		
• at 50 Hz Rated value	V	42 48
• at 60 Hz Rated value	V	42 48
Control supply voltage for DC		
Rated value	V	42 48
Rated value	Hz	40
Control supply voltage frequency 2 Rated value	Hz	60
Operating range factor control supply voltage rated	_	
value of the magnet coil with AC		
● at 50 Hz		0.8 1.1
● at 60 Hz		0.8 1.1
Operating range factor control supply voltage rated	_	0.8 1.1
value of the magnet coil for DC		
Design of the surge suppressor		with varistor
Apparent pick-up power of the magnet coil with AC	V·A	830
Apparent holding power of the magnet coil with AC	V·A	9.2
Closing power of the magnet coil for DC	W	920
Holding power of the magnet coil for DC	W	10
Inductive power factor		
 with closing power of the coil 		0.9
 with the holding power of the coil 		0.9
Auxiliary circuit: Number of NC contacts		
• for auxiliary contacts		

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-15		
• at 230 V Rated value	Α	6
• at 400 V Rated value	Α	3
Operating current		
• at DC-12 at 220 V Rated value	Α	1
• at DC-13 at 220 V Rated value	Α	0.3
Operating current		
● at DC-12		
— at 60 V Rated value	Α	6
— at 110 V Rated value	Α	3

• at DC-13		
— at 24 V Rated value	Α	10
— at 60 V Rated value	Α	2
— at 110 V Rated value	Α	1
— at 110 v Nateu value	, ,	· ·
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: 800 A
 — with type of assignment 2 required 		fuse gL/gG: 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	mm	214
Width	mm	160
Depth	mm	225
Required spacing		
• for grounded parts		
— at the side	mm	10
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 AWG conductors for main contacts 		2/0 500 kcmil
• 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
Mechanical data:		
Size of contactor		S12
Ambient conditions:	m	2 000
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
during operation	°C	-25 +60

• during storage °C -55 ... +80

Certificates/ approvals:

General Product Approval

Functional Safety/Safety of Machinery Declaration of Conformity









Type Examination



Test	Shipping Approval	other
Certificates		

Special Test Certificate









Environmental Confirmations

other

Confirmation

other

Further information

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

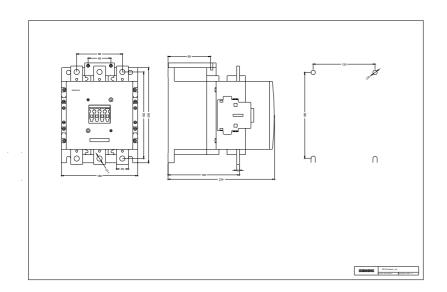
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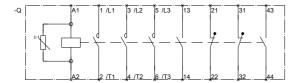
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT14766AD36

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

http://support.automation.siemens.com/WW/view/en/3RT14766AD36/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT14766AD36&lang=en





3RT106.-.A..6_01_4_IEC.DXF 3RT107.-.A..6_01_4_IEC.DXF

last modified:

11.03.2015