SIEMENS

Data sheet 3RT1476-6AV36



CONTACTOR, 690A/AC-1 AC(40...60HZ)/DC OPERATION UC 380-420V 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
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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 400 V at ambient temperature 40 °C Rated value — up to 690 V at ambient temperature 40 °C A 690 Rated value — up to 690 V at ambient temperature 60 °C Rated value — up to 690 V at ambient temperature 60 °C Rated value • at AC-3 — at 400 V Rated value A 170 Operating current with 1 current path • at DC-3 — at 24 V Rated value — at 110 V Rated value — at 110 V Rated value — at 1110 V Rated value A 500 Operating current with 2 current paths in series • at DC-3 — at 124 V Rated value — at 1110 V Rated value A 500 • at DC-3 — at 24 V Rated value — at 1110 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 500 • at DC-3 — at 110 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 500 Operating current with 3 current paths in series • at DC-3 at 110 V Rated value A 500 Operating power • at AC-1 at 400 V Rated value • at AC-1 at 400 V Rated value A 500 Operating power • at AC-1 at 400 V Rated value • at AC-1 at 400 V Rated value A 500 Operating power • at AC-1 — at 290 V Rated value A 500 Operating power • at AC-1 — at 290 V Rated value A 500 Operating power • at AC-3 • at 400 V Rated value A 500 Operating power • at AC-3 • at 400 V Rated value A 500 Operating power • at AC-3 • at 400 V Rated value A 500 Operating power • at AC-3 • at 400 V Rated value A 500 Operating power • at AC-3 • at 290 V Rated value A 500 Operating power • at AC-3 • at 400 V Rated value A 500 Operating power • at AC-3 • at 400 V Rated value A 500 Operating power • at AC-3 • at 400 V Rated value A 500 Operating power • at AC-3 • at 400 V Rated value A 500 Operating power • at AC-3 • at 290 V Rated value A 500 Operating power • at AC-3 • at 290 V Rated value A 500	• at AC-1		
Rated value — up to 690 V at ambient temperature 40 °C Rated value — up to 690 V at ambient temperature 60 °C Rated value • at AC-3 — at 400 V Rated value • at 690 V Rated value A 170 Operating current with 1 current path • at DC-1 — at 24 V Rated value — at 110 V Rated value — at 24 V Rated value — at 25 V Rated value — at 26 V Rated value — at 27 V Rated value — at 28 V Rated value — at 29 V Rated value — at 29 V Rated value — at 20 V Rated value — at 20 V Rated value — at 300 V Rated value — at 690 V	— at 400 V at ambient temperature 40 °C	Α	690
Rated value — up to 690 V at ambient temperature 60 °C Rated value • at AC-3 — at 400 V Rated value — at 690 V Rated value — at 690 V Rated value — A 170 Operating current with 1 current path • at DC-1 — at 24 V Rated value — at 110 V Rated value — at 24 V Rated value — at 110 V Rated value — at 110 V Rated value — at 110 V Rated value — at 24 V Rated value — at 110 V Rated value — at 24 V Rated value — at 30 C-3 — at 110 V Rated value — at 24 V Rated value — at 25 C Rated value • at AC-1 at 400 V Rated value — at 690 V at 60 °C Rated value — at 690 V Rated value • at AC-3			
- up to 690 V at ambient temperature 60 °C Rated value • at AC-3 — at 400 V Rated value — at 690 V Rated value — at 690 V Rated value — at 690 V Rated value — at 190 V Rated value — at 110 V Rated value — at 24 V Rated value • at AC-1 at 400 V Rated value • at AC-2 at 400 V Rated value • at AC-1 at 400 V Rated value • at AC-1 at 400 V Rated value • at 690 V Rated value — at 690 V Rated value — at 690 V Rated value • at AC-3	— up to 690 V at ambient temperature 40 $^{\circ}$ C	Α	690
Rated value	Rated value		
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- at 400 V Rated value			
— at 690 V Rated value A 170 Operating current with 1 current path • at DC-1 — at 24 V Rated value A 500 — at 110 V Rated value A 33 • at DC-3 at DC-5 — at 24 V Rated value A 3 Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 500 Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 500 • at DC-3 at DC-5 — at 110 V Rated value A 500 • at DC-3 at DC-5 — at 110 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 500 Operating current with 3 current paths in series • at DC-3 at DC-5 — at 110 V Rated value A 500 • at DC-3 at DC-5 — at 110 V Rated value A 500 • at DC-3 at DC-5 — at 110 V Rated value A 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 740 — at 690 V Rated value KW 740 • at AC-3			470
Operating current with 1 current path • at DC-1 — at 24 V Rated value — at 110 V Rated value A 33 • at DC-3 — at 24 V Rated value A 500 — at 110 V Rated value A 3 Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 500 — at 110 V Rated value A 500 • at DC-3 — at 110 V Rated value A 500 • at DC-3 at DC-5 — at 110 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 500 Operating current with 3 current paths in series • at DC-3 — at 110 V Rated value A 500 • at DC-3 — at 110 V Rated value A 500 Operating power • at AC-1 at 400 V Rated value A 500 Operating power • at AC-2 at 400 V Rated value • at AC-1 — at 230 V at 60 °C Rated value RW 245 — at 690 V Rated value RW 740 • at AC-3			
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- at 24 V Rated value			
— at 110 V Rated value • at DC-3 at DC-5 — at 24 V Rated value — at 110 V Rated value — at 110 V Rated value — at 110 V Rated value — at 24 V Rated value — at 24 V Rated value — at 24 V Rated value — at 110 V Rated value — at 110 V Rated value — at 110 V Rated value — at 24 V Rated value — at 110 V Rated value — at 110 V Rated value — at 110 V Rated value — at 24 V Rated value — at 30 V Rated value — at 24 V Rated value — at 30 V Rated value — at 60 V Rated value — at 690 V Rated val			
• at DC-3 at DC-5 — at 24 V Rated value A 500 — at 110 V Rated value A 3 Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 500 — at 110 V Rated value A 500 • at DC-3 at DC-5 — at 110 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 500 Operating current with 3 current paths in series • at DC-3 — at 110 V Rated value A 500 • at DC-3 at DC-5 — at 110 V Rated value A 500 • at DC-3 at DC-5 — at 110 V Rated value A 500 Operating power • at AC-1 at 400 V Rated value A 500 Operating power • at AC-1 — at 230 V at 60 °C Rated value — at 690 V Rated value A W 740 • at AC-3			
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— at 110 V Rated value A 3 Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 500 • at DC-3 at DC-5 — at 110 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 500 • at DC-3 at DC-5 — at 110 V Rated value A 500 • at DC-3 at DC-5 — at 110 V Rated value A 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 740 — at 690 V Rated value KW 740 • at AC-3			
Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 500 — at 110 V Rated value A 500 • at DC-3 at DC-5 — at 110 V Rated value — at 24 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 500 — at 110 V Rated value A 500 • at DC-3 at DC-5 — at 110 V Rated value — at 24 V Rated value A 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 690 V at 60 °C Rated value kW 740 — at 690 V Rated value kW 740 • at AC-3 • at AC-3			
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at 24 V Rated value			
— at 110 V Rated value • at DC-3 at DC-5 — at 110 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 500 • at DC-3 at DC-5 — at 110 V Rated value A 500 • at DC-3 at DC-5 — at 110 V Rated value A 500 Operating power • at AC-1 at 400 V Rated value kW 430 • at AC-2 at 400 V Rated value • at AC-1 — at 230 V at 60 °C Rated value kW 740 — at 690 V Rated value • at AC-3			
at DC-3 at DC-5 — at 110 V Rated value — at 24 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value — at 110 V Rated value — at 110 V Rated value • at DC-5 — at 110 V Rated value — at 24 V Rated value A 500 • at DC-3 — at 24 V Rated value A 500 Operating power • at AC-1 at 400 V Rated value • at AC-2 at 400 V Rated value • at AC-1 — at 230 V at 60 °C Rated value — at 690 V Rated value • at AC-3 • at AC-3			
- at 110 V Rated value A 500 Operating current with 3 current paths in series • at DC-1 - at 24 V Rated value A 500 - at 110 V Rated value A 500 • at DC-3 at DC-5 - at 110 V Rated value A 500 • at DC-3 at DC-5 - at 110 V Rated value A 500 Operating power • at AC-1 at 400 V Rated value kW 430 • at AC-2 at 400 V Rated value • at AC-1 - at 230 V at 60 °C Rated value kW 740 • at AC-3		Α	500
— at 24 V Rated value Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 500 • at DC-3 at DC-5 — at 110 V Rated value A 500 • at DC-3 at DC-5 — at 24 V Rated value A 500 Operating power • at AC-1 at 400 V Rated value kW 430 • at AC-2 at 400 V Rated value • at AC-1 — at 230 V at 60 °C Rated value A 690 V Rated value kW 740 • at AC-3			
Operating current with 3 current paths in series ● at DC-1 — at 24 V Rated value A 500 — at 110 V Rated value A 500 • at DC-3 at DC-5 A 500 — at 24 V Rated value A 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 AC-1 — at 690 V at 60 °C Rated value kW 740 — at 690 V Rated value kW 740 • at AC-3 • at AC-3			
• at DC-1 — at 24 V Rated value A 500 — at 110 V Rated value A 500 • at DC-3 at DC-5 — at 110 V Rated value A 500 — at 24 V Rated value A 500 Operating power • at AC-1 at 400 V Rated value • at AC-2 at 400 V Rated value • at AC-1 — at 230 V at 60 °C Rated value A 245 — at 690 V Rated value A 500 WW 740 • at AC-3		Α	500
- at 24 V Rated value			
- at 110 V Rated value • at DC-3 at DC-5 — at 110 V Rated value A 500 — at 24 V Rated value A 500 Operating power • at AC-1 at 400 V Rated value • at AC-2 at 400 V Rated value • at AC-1 — at 230 V at 60 °C Rated value kW 245 — at 690 V Rated value • at AC-3			
• at DC-3 at DC-5 — at 110 V Rated value A 500 — at 24 V Rated value A 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 110 V Rated value A 500 — at 24 V Rated value A 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 KW 245 — at 690 V at 60 °C Rated value kW 740 — at 690 V Rated value kW 740 • at AC-3 • at AC-3	— at 110 V Rated value	Α	500
— at 24 V Rated value A 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 AC-3	• at DC-3 at DC-5		
Operating power • at AC-1 at 400 V Rated value	— at 110 V Rated value	Α	500
 at AC-1 at 400 V Rated value at AC-2 at 400 V Rated value by 90 Operating power at AC-1 at 230 V at 60 °C Rated value at 690 V at 60 °C Rated value at 690 V Rated value at AC-3 		Α	500
 at AC-2 at 400 V Rated value Departing power at AC-1 at 230 V at 60 °C Rated value at 690 V at 60 °C Rated value at 690 V Rated value at AC-3 at AC-3 	Operating power		
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 AC-3	● at AC-1 at 400 V Rated value		
 at AC-1 at 230 V at 60 °C Rated value at 690 V at 60 °C Rated value at 690 V Rated value at AC-3 		kW	90
 — at 230 V at 60 °C Rated value — at 690 V at 60 °C Rated value — at 690 V Rated value • at AC-3 kW 740 kW 740 			
 — at 690 V at 60 °C Rated value — at 690 V Rated value ♦ at AC-3 kW 740 kW 740 			
— at 690 V Rated value kW 740 • at AC-3			
• at AC-3			
	— at 690 V Rated value	kW	740
at 230 V Pated value kW 160	• at AC-3		
	— at 230 V Rated value	kW	160
— at 400 V Rated value kW 90	— 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	380 420
● at 60 Hz Rated value	V	380 420
Control supply voltage for DC		
Rated value	V	380 420
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 value of the magnet coil for DC		0.8 1.1
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		
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
• -t 400 \/ D-tl	۸	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









other

other

Environmental Confirmations

Confirmation

Further information

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

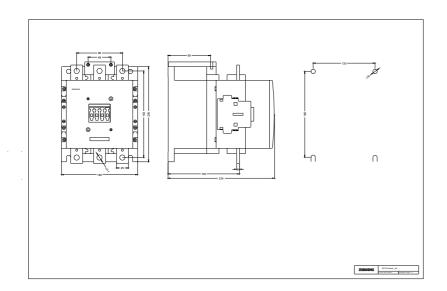
Cax online generator

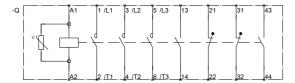
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT14766AV36

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

http://support.automation.siemens.com/WW/view/en/3RT14766AV36/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=3RT14766AV36&lang=en





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