SIEMENS

Data sheet 3RT1466-6AP36



CONTACTOR, 400A/AC-1 AC(40...60HZ)/DC OPERATION UC 220-240V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S10 BAR CONNECTIONS CONVENT. OPERATING MECHANISM

Figure similar

product brand name	SIRIUS
Product designation	power contactor

General technical data:		
Insulation voltage		
Rated value	V	1 000
Degree of pollution		3
Surge voltage resistance Rated value	kV	8
Mechanical service life (switching cycles)		
of the 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
Thermal short-time current restricted to 10 s	Α	2 400
Protection class IP		
• on the front		IP00
• of the terminal		IP00
Equipment marking		
● 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		

	• ot 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 — 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 1110 V Rated value — at 1110 V Rated value — at 1110 V Rated value — at 24 V Rated value — at 110 V Rated value — at 110 V Rated value — at 24 V Rated value — at 24 V Rated value — at 110 V Rated value — at 380 — at 110 V Rated value — at 380 — at 110 V Rated value — at 24 V Rated value A 380 Operating ourrent with 3 current paths in series • at DC-3 — at 110 V Rated value A 380 Operating power • at AC-1 at 400 V Rated value &W 430 Operating power • at AC-1 — at 230 V at 60 °C Rated value &W 430 • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value		٨	400
— 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 800 V Rated value — at 690 V Rated value — at 690 V Rated value — at 10 C-1 — at 24 V Rated value — at 110 V Rated value — at 24 V Rated value — at 110 V Rated value — at 24 V Rated value — at 110 V Rated value — at 24 V Rated value — at 110 V Rated value — at 24 V Rated value — at 600 V Rated value —		^	400
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 138 Cerating 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 124 V Rated value — at 124 V Rated value — at 124 V Rated value — at 110 V Rated value — at 110 V Rated value — at 110 V Rated value — at 24 V Rated value — at 10 C-1 — at 24 V Rated value — at 110 V Rated value — at 110 V Rated value — at 110 V Rated value A 380 Operating current with 3 current paths in series • at DC-3 — at 110 V Rated value A 380 Operating current with 3 current paths in series • at DC-3 — at 24 V Rated value A 380 Operating power • at AC-1 at 400 V Rated value A 380 Operating power • at AC-1 — at 230 V at 60 °C Rated value — at 690 V V Rated value — at 690 V V Rated value — at 690 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value		Α	400
Rated value • at AC-3 — at 400 V Rated value A 138 Operating current with 1 current path • at DC-1 — at 24 V Rated value A 380 — at 110 V Rated value A 380 • at DC-3 at DC-5 — at 24 V Rated value A 380 Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 380 Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 380 Operating current with 3 current paths in series • at DC-3 — at 110 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value A 380 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 380 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 380 Operating current with 3 current paths in series • at DC-3 — at 110 V Rated value A 380 Operating current with 3 current paths in series • at DC-3 — at 110 V Rated value A 380 Operating power • at AC-1 400 V Rated value A 380 Operating power • at AC-1 400 V Rated value A 380 Operating power • at AC-2 at 400 V Rated value A 380 Operating power • at AC-1 — at 230 V at 60 °C Rated value A 430 — at 690 V at 60 °C Rated value A 430 — at 690 V Rate	•		
• at AC-3 — at 400 V Rated value — at 690 V Rated value A 138 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 380 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value — at 110 V Rated value A 380 Operating power • at AC-3 at 400 V Rated value — at 230 V at 60 °C Rated value — at 690 V at 60 °C Rated value — at 690 V Rated value — at 6	— up to 690 V at ambient temperature 60 °C	Α	380
- at 400 V Rated value	Rated value		
Operating current with 1 current path	• at AC-3		
Operating current with 1 current path ● at DC-1 — at 24 V Rated value A 380 — at 110 V Rated value A 380 ● at DC-3 at DC-5 — at 24 V Rated value A 380 — at 110 V Rated value A 380 — at 110 V Rated value A 380 — at 24 V Rated value A 380 — at 110 V Rated value A 380 — at 110 V Rated value A 380 — at 24 V Rated value A 380 — at 24 V Rated value A 380 Operating current with 3 current paths in series ■ at DC-1 — at 24 V Rated value A 380 — at 110 V Rated value A 380 — at 110 V Rated value A 380 — at DC-3 at DC-5 — at 110 V Rated value A 380 — at 24 V Rated value A 380 — at 250 V Rated value	— at 400 V Rated value	Α	138
■ 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 690 V Rated value • at AC-1 — at 230 V at 60 °C Rated value — at 690 V Rated value — at 690 V Rated value — at 690 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 240 V Rated value • at AC-3 — at 240 V Rated value • at AC-3 — at 240 V Rated valu	— at 690 V Rated value	Α	138
at 24 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 20 V Rated value at 24 V Rated value at 24 V Rated value at 110 V Rated value at 110 V Rated value at 24 V Rated value at 110 V Rated value at 380 at 110 V Rated value at 24 V Rated value at 250 V Rated value	Operating current with 1 current path		
— at 110 V Rated value • at DC-3 at DC-5 — at 24 V Rated value — at 110 V Rated value — at 22 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 25 V Rated value — at 26 V Rated value — at 27 V Rated value — at 28 V Rated value — at 400 V Rated value • at AC-1 at 400 V Rated value • at AC-1 — at 230 V at 60 °C Rated value — at 690 V Rated value — at 690 V Rated value — at 690 V Rated value • at AC-3 — at 230 V Rated value • at AC-3	• at DC-1		
• at DC-3 at DC-5 — at 24 V Rated value — at 110 V Rated value A 3 Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 380 • at DC-3 — at 110 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value A 380 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 380 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 380 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value A 380 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 AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value kW 430 • at AC-3 — at 230 V Rated value kW 97	— at 24 V Rated value	Α	380
— at 24 V Rated value — at 110 V Rated value A A 3 Operating current with 2 current paths in series	— at 110 V Rated value	Α	33
— at 110 V Rated value A 3 Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value A 380 • at DC-3 at DC-5 — at 24 V Rated value A 380 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 380 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value A 380 Operating power • at AC-1 at 400 V Rated value KW 250 • at AC-2 at 400 V Rated value KW 75 Operating power • at AC-1 — at 230 V at 60 °C Rated value KW 430 — at 690 V Rated value KW 430 • at AC-3 — at 230 V Rated value KW 430 • at AC-3 — at 230 V Rated value KW 430 • at AC-3 — at 230 V Rated value KW 430	• at DC-3 at DC-5		
Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 380 — at 110 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value A 380 — at 24 V Rated value A 380 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 380 — at 110 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value A 380 — at 24 V Rated value A 380 Operating power • at AC-1 at 400 V Rated value kW 250 • at AC-2 at 400 V Rated value kW 75 Operating power • at AC-1 — at 230 V at 60 °C Rated value kW 430 — at 690 V Rated value kW 430 — at 690 V Rated value kW 430 • at AC-3 — at 230 V Rated value kW 97	— at 24 V Rated value	Α	380
• at DC-1 — at 24 V Rated value — at 110 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value A 380 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 380 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value A 380 Operating power • at AC-1 at 400 V Rated value A 380 Operating power • at AC-2 at 400 V Rated value A 380 Operating power • at AC-1 — at 230 V at 60 °C Rated value A 430 — at 690 V Rated value A 430 • at AC-3 — at 690 V Rated value A 430 • at AC-3 — at 230 V Rated value A 430 • at AC-3 — at 230 V Rated value A 430 • at AC-3 — at 230 V Rated value A 430 • at AC-3 — at 230 V Rated value A 430	— at 110 V Rated value	Α	3
	Operating current with 2 current paths in series	_	
— at 110 V Rated value • at DC-3 at DC-5 — at 110 V Rated value A 380 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 380 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value A 380 Operating power • at AC-1 at 400 V Rated value kW 250 • at AC-2 at 400 V Rated value kW 75 Operating power • at AC-1 — at 230 V at 60 °C Rated value kW 430 • at AC-3 — at 230 V Rated value kW 430 • at AC-3 — at 230 V Rated value kW 97	• at DC-1		
• at DC-3 at DC-5 — at 110 V Rated value A 380 — at 24 V Rated value A 380 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 380 — at 110 V Rated value A 380 • at DC-5 — at 110 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value A 380 Operating power • at AC-1 at 400 V Rated value kW 250 • at AC-2 at 400 V Rated value kW 75 Operating power • at AC-1 — at 230 V at 60 °C Rated value kW 430 — at 690 V Rated value kW 430 • at AC-3 — at 230 V Rated value kW 430 • at AC-3 — at 230 V Rated value kW 430 • at AC-3 — at 230 V Rated value kW 97	— at 24 V Rated value	Α	380
at 110 V Rated value at 24 V Rated value A 380 Operating current with 3 current paths in series ■ at DC-1 at 24 V Rated value A 380 at 110 V Rated value A 380 ■ at DC-3 at DC-5 at 110 V Rated value A 380 at 24 V Rated value A 380 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 ■ kW 430 at 690 V Rated value ■ kW 430 ■ at AC-3 at 230 V Rated value ■ kW 97	— at 110 V Rated value	Α	380
— at 24 V Rated value Operating current with 3 current paths in series ● at DC-1 — at 24 V Rated value A 380 — at 110 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value A 380 Operating power ● at AC-1 at 400 V Rated value A 380 Operating power • at AC-2 at 400 V Rated value KW 75 Operating power • at AC-1 — at 230 V at 60 °C Rated value KW 430 — at 690 V Rated value KW 430 • at AC-3 — at 230 V Rated value KW 97	• at DC-3 at DC-5		
Operating current with 3 current paths in series ● at DC-1 — at 24 V Rated value A 380 — at 110 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value — at 24 V Rated value A 380 Operating power • at AC-1 at 400 V Rated value kW 250 • at AC-2 at 400 V Rated value kW 75 Operating power • at AC-1 — at 690 V at 60 °C Rated value kW 430 — at 690 V Rated value kW 430 • at AC-3 — at 230 V Rated value • at AC-3 — at 230 V Rated value	— at 110 V Rated value	Α	380
• at DC-1 — at 24 V Rated value A 380 — at 110 V Rated value A 380 • at DC-3 at DC-5 — at 110 V Rated value A 380 Operating power • at AC-1 at 400 V Rated value A at AC-2 at 400 V Rated value A at AC-1 — at 230 V at 60 °C Rated value A www. 430 • at AC-3 — at 230 V Rated value A www. 430 • at AC-3 — at 230 V Rated value A www. 430 • at AC-3 — at 230 V Rated value A www. 430 • at AC-3 — at 230 V Rated value A www. 430 • at AC-3 — at 230 V Rated value A www. 430 • at AC-3 — at 230 V Rated value A www. 430 • at AC-3 — at 230 V Rated value A www. 430	— at 24 V Rated value	Α	380
- at 24 V Rated value	Operating current with 3 current paths in series		
- at 110 V Rated value	• at DC-1		
• at DC-3 at DC-5 — at 110 V Rated value A 380 — at 24 V Rated value A 380 Operating power • at AC-1 at 400 V Rated value • at AC-2 at 400 V Rated value kW 75 Operating power • at AC-1 — at 230 V at 60 °C Rated value kW 145 — at 690 V at 60 °C Rated value kW 430 • at AC-3 — at 230 V Rated value kW 430 • at AC-3 — at 230 V Rated value kW 97	— at 24 V Rated value	Α	380
— at 110 V Rated value A 380 — at 24 V Rated value A 380 Operating power • at AC-1 at 400 V Rated value kW 250 • at AC-2 at 400 V Rated value kW 75 Operating power • at AC-1 - at 230 V at 60 °C Rated value kW 145 — at 690 V at 60 °C Rated value kW 430 — at 690 V Rated value kW 430 • at AC-3 - at 230 V Rated value kW 97	— at 110 V Rated value	Α	380
— at 24 V Rated value A 380 Operating power	• at DC-3 at DC-5		
Operating power • at AC-1 at 400 V Rated value	— at 110 V Rated value	Α	380
 at AC-1 at 400 V Rated value at AC-2 at 400 V Rated value be at AC-2 at 400 V Rated value at AC-1 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 690 V Rated value at AC-3 at 230 V Rated value at 230 V Rated value at 230 V Rated value 	— at 24 V Rated value	Α	380
• at AC-2 at 400 V Rated value KW 75 Operating power • at AC-1 — at 230 V at 60 °C Rated value	Operating power		
Operating power • at AC-1 — at 230 V at 60 °C Rated value kW 145 — at 690 V at 60 °C Rated value kW 430 — at 690 V Rated value kW 430 • at AC-3 — at 230 V Rated value kW 97	• at AC-1 at 400 V Rated value	kW	250
 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 690 V Rated value at AC-3 at 230 V Rated value kW 97 	• at AC-2 at 400 V Rated value	kW	75
 — 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 230 V Rated value kW 430 97 	Operating power		
 — at 690 V at 60 °C Rated value — at 690 V Rated value kW 430 ■ at AC-3 — at 230 V Rated value kW 97 	• at AC-1		
 — at 690 V Rated value b at AC-3 — at 230 V Rated value kW 430 kW 97 	— at 230 V at 60 °C Rated value	kW	145
● at AC-3 — at 230 V Rated value kW 97	— at 690 V at 60 °C Rated value	kW	430
— at 230 V Rated value kW 97	— at 690 V Rated value	kW	430
	• at AC-3		
— at 400 V Rated value kW 75	— at 230 V Rated value	kW	97
	— at 400 V Rated value	kW	75

— at 500 V Rated value	kW	90
— at 690 V Rated value	kW	132

Control circuit/ Control:		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage with AC		
● at 50 Hz Rated value	V	220 240
● at 60 Hz Rated value	V	220 240
Control supply voltage for DC		
Rated value	V	220 240
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	590
Apparent holding power of the magnet coil with AC	V·A	6.7
Closing power of the magnet coil for DC	W	650
Holding power of the magnet coil for DC	W	7.4
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
• 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

- at 110 V Rated value

6

3

Α

• 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: 500 A
 — with type of assignment 2 required 		fuse gL/gG: 500 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	210
Width	mm	145
Depth	mm	202
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		S10
Ambient conditions: Installation altitude at height above sea level	m	2 000
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

Confirmation

Environmental Confirmations

Further information

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

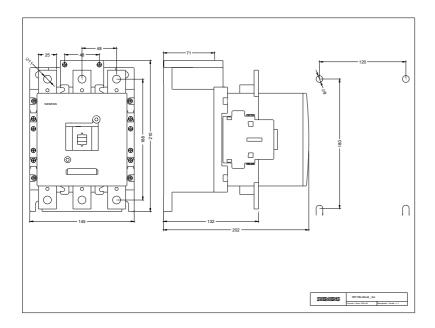
Cax online generator

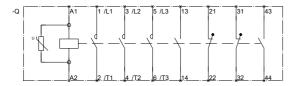
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RT14666AP36/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=3RT14666AP36&lang=en





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