SIEMENS

Data sheet 3RT1466-2AP36



CONTACTOR, 400A/AC-1 AC(40...60HZ)/DC
OPERATION UC 220-240V AUX. CONTACTS
2NO+2NC 3-POLE, SIZE S10 BAR CONNECTIONS
CONVENT. OPERATING MECHANISM AUX. SWITCH
AND COIL CONNECTIONS IN SPRING-LOADED
TECHNOL.

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
A.Ain-close-ide		

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 250 • 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 • 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 124 V Rated value — at 110 V Rated value — at 24 V Rated value — at 124 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 • 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 — at 110 V Rated value — at 110 V Rated value — at 24 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 69	— 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 380 Operating power • at AC-1 at 400 V Rated value • at AC-2 at 400 V Rated value • at AC-3 — at 230 V at 60 °C Rated value	— 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		0.8 1.1
value of the magnet coil for DC		0.0 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
UL/CSA ratings:		AC00 / OC00
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		Cage Clamp terminals
 for auxiliary and control current circuit 		Cage Clamp terminals
Type of connectable conductor cross-section		
 for AWG conductors for main contacts 		2/0 500 kcmil
for auxiliary contacts		
— solid		2x (0.25 2.5 mm²)
 finely stranded with core end processing 		2x (0.25 1.5 mm²)
— finely stranded without core end		2x (0.25 2.5 mm²)
processing		2 (24 44)
 for AWG conductors for auxiliary contacts 		2x (24 14)
Mechanical data:		
Size of contactor		S10
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
	m	2 000

during operation

°C -25 ... +60 °C

• during storage

-55 ... +80

Certificates/ approvals:

General Product Approval

Functional Safety/Safety of Machinery

Declaration of Conformity









Type Examination



Test	
Certificates	

Shipping Approval

other

Special Test

Certificate









Confirmation

other

Environmental Confirmations

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

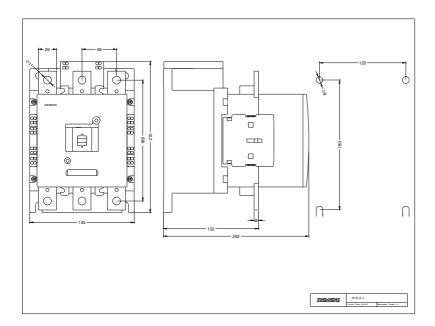
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT14662AP36

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

http://support.automation.siemens.com/WW/view/en/3RT14662AP36/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=3RT14662AP36&lang=en





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