SIEMENS

Data sheet

3RT1466-6AD36



CONTACTOR, 400A/AC-1 AC(40...60HZ)/DC OPERATION UC 42-48V 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-		5 000 000
compatible auxiliary switch block typical		
 of the contactor with added auxiliary switch 		10 000 000
block typical		
Thermal short-time current restricted to 10 s	A	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
Aain 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	А	400
Rated value		
— up to 690 V at ambient temperature 40 $^\circ C$	А	400
Rated value		
— up to 690 V at ambient temperature 60 °C	А	380
Rated value		
• at AC-3		
— at 400 V Rated value	A	138
— at 690 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	33
• at DC-3 at DC-5		
— at 24 V Rated value	A	380
— 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 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	1.547	050
• 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	1.547	445
— 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	1.547	07
— at 230 V Rated value	kW	97
— at 400 V Rated value	kW	75

Labor Value KW 132 Type of voltage of the control supply voltage AC/0C Control critical 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 Control supply voltage for DC - • Rated value V 42 48 Control supply voltage for DC - • Rated value Hz 40 Control supply voltage frequency 2 Rated value Hz 60 Operating range factor control supply voltage rated value Hz 60 Operating range factor control supply voltage rated value 0.8 1.1 0.8 1.1 • at 50 Hz 0.8 1.1 0.8 1.1 • at 60 Hz 0.8 1.1 0.8 1.1 • Design of the surge suppressor With varistor Apparent holding power of the magnet coll with AC VA 6.7 Cloing power of the magnet coll with AC VA 6.7 • with closing power of the coll 0.9 0.9 • with closing power of the coll 0.9 0.9 • with closing power of the coll 0.9 0.9 • with closing power of the coll <th>— at 500 V Rated value</th> <th>kW</th> <th>90</th>	— at 500 V Rated value	kW	90
Control circuit/ Control: Type of voltage of the control supply voltage AC/DC Control supply voltage with AC v 4248 • at 50 Hz Rated value V 4248 • at 60 Hz Rated value V 4248 • Control supply voltage for DC v 4248 • Rated value V 4248 • Control supply voltage for DC v 4248 • Rated value V 4248 Control supply voltage for DC v 4248 • Rated value V 4248 Control supply voltage for DC v 4248 • at 60 Hz 0.811 0.811 • at 60 Hz 0.811 0.811 Operating range factor control supply voltage rated v811 0.811 value of the magnet coll with AC V/A 590 Apparent plok-up power of the magnet coll with AC V/A 500 Apparent plok-up power of the magnet coll with AC V/A 500 Apparent plok-up power of the coll 0.9 vith closing power of the coll <td></td> <td></td> <td></td>			
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Control supply voltage with AC v 4248 • at 50 Hz Rated value V 4248 Control supply voltage for DC v 4248 • Rated value V 4248 Control supply voltage frequency 2 Rated value Hz 40 Control supply voltage frequency 2 Rated value Hz 60 Operating range factor control supply voltage rated value Hz 60 Operating range factor control supply voltage rated value 0.81.1 0.81.1 • at 50 Hz 0.81.1 0.81.1 • at 60 Hz 0.81.1 0.81.1 Operating range factor control supply voltage rated value 0.81.1 • at 60 Hz 0.81.1 Operating range factor control supply voltage rated value 0.81.1 Operating range factor control supply voltage rated value 0.81.1 value of the magnet coil for DC W 6.7 Closing power of the magnet coil with AC V-A 6.7 Closing power of the magnet coil for DC W 650 Hoting power of the coil 0.9 0.9 • with closing power of the coil 0.9 0.9 <td></td> <td></td> <td></td>			
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Operating range factor control supply voltage rated value of the magnet coll with AC 0.8 1.1 • 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 coll for DC 0.8 1.1 Design of the surge suppressor with variator Apparent pick-up power of the magnet coll with AC V:A 590 Apparent pick-up power of the magnet coll with AC V:A 6.7 Closing power of the magnet coll of DC W 650 Holding power of the magnet coll of DC W 650 Holding power of the coll 0.9 0.9 • with closing power of the coll 0.9 0.9 • with closing power of the coll 0.9 0.9 • with closing power of the coll 0.9 0.9 • with closing power of the coll 0.9 0.9 • for auxiliary contacts 2 0.9 • for auxiliary contacts 2 2 • for auxiliary contacts 2 2 • for auxiliary contacts 2 2 • at 20 V cated value A 6 • at 20 V Rated value A <td>Rated value</td> <td>Hz</td> <td>40</td>	Rated value	Hz	40
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Apparent pick-up power of the magnet coll with AC V-A 590 Apparent holding power of the magnet coll with AC V-A 6.7 Closing power of the magnet coll for DC W 650 Holding power of the magnet coll for DC W 7.4 Inductive power factor 0.9 • with closing power of the coil 0.9 • with the holding power of the coil 0.9 • with the holding power of the coil 0.9 • with the holding power of the coil 0.9 • with the holding power of the coil 0.9 • with the holding power of the coil 0.9 • with the holding power of the coil 0.9 • for auxiliary contacts 2 • at 230 V Rated value A 6 • at 400 V Rated value A 3 Operating current A 1 • at DC-12 at 220 V Rated value A 1 • at DC-12 - at 60 V Rated value A 6 <td></td> <td></td> <td>0.8 1.1</td>			0.8 1.1
Apparent holding power of the magnet coil with AC Closing power of the magnet coil for DCV·A6.7Holding power of the magnet coil for DCW650Holding power of the magnet coil for DCW7.4Inductive power factor • with closing power of the coil0.9• with closing power of the coil0.9Auxiliary circuit:0.9Number of NC contacts • for auxiliary contacts - instantaneous contact2Number of NO contacts • for auxiliary contacts - instantaneous contact2Operating current at AC-15 • at 230 V Rated valueA6• at DC-12 • at DC-12 • at DC-12 	Design of the surge suppressor	_	with varistor
Closing power of the magnet coll for DCW650Holding power of the magnet coll for DCW7.4Inductive power factor0.9• with closing power of the coll0.9• with the holding power of the coll0.9Auxiliary circuit:0.9Number of NC contacts2- instantaneous contact2Number of NO contacts2• for auxiliary contacts2- instantaneous contact2Operating current at AC-154• at 230 V Rated valueA• at 200 V Rated valueA• at DC-12 at 220 V Rated valueA• at DC-12- at 60 V Rated value• at DC-12A• at BC-12A• at BC-12A• at BC-12A• at BC-12A• at BC-12A• at BC-12	Apparent pick-up power of the magnet coil with AC	V·A	590
Holding power of the magnet coll for DCW7.4Inductive power factor0.9• with closing power of the coll0.9• with the holding power of the coll0.9Auxiliary circuit:0.9Number of NC contacts2• for auxiliary contacts2— instantaneous contact2Number of NO contacts2— instantaneous contact2Operating current at AC-156• at 230 V Rated valueA• at 200 V Rated valueA• at DC-12 at 220 V Rated valueA• at DC-12 de UN Rated valueA• at DC-12 at 60 V Rated valueA• A6• at DC-12 at 60 V Rated valueA• A6• A6• A6• A0.3• A0	Apparent holding power of the magnet coil with AC	V·A	6.7
Inductive power factor0.9• with closing power of the coil0.9• with the holding power of the coil0.9Auxiliary circuit:Number of NC contacts• for auxiliary contacts2— instantaneous contact2Number of NO contacts• for auxiliary contacts2— instantaneous contact2Operating current at AC-15• at 230 V Rated valueA• at 400 V Rated valueA• at 200 V Rated valueA• at DC-12 at 220 V Rated valueA• at DC-12 at 220 V Rated valueA• at DC-12 at 60 V Rated valueA6 at 60 V Rated valueA• A6• at DC-12 at 60 V Rated valueA• A6	Closing power of the magnet coil for DC	W	650
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• with the holding power of the coil 0.9 Auxiliary circuit: • Number of NC contacts 2 • for auxiliary contacts 2 • instantaneous contact 2 Number of NO contacts 2 • for auxiliary contacts 2 • instantaneous contact 2 Operating current at AC-15 4 • at 230 V Rated value A • at 400 V Rated value A • at 00 V Rated value A • at DC-12 at 220 V Rated value A • at DC-12	Inductive power factor		
Auxiliary circuit: Number of NC contacts - instantaneous contact 2 Number of NO contacts - instantaneous contact 2 Number of NO contacts - instantaneous contact 2 Operating current at AC-15 - at 230 V Rated value A 6 - at 20 V Rated value A 1 - at DC-12 at 220 V Rated value A 0perating current - at DC-12 - at 60 V Rated value A 6	 with closing power of the coil 		0.9
Number of NC contacts2• for auxiliary contacts2— instantaneous contact2Number of NO contacts2• for auxiliary contacts2— instantaneous contact2Operating current at AC-154• at 230 V Rated valueA• at 400 V Rated valueA• at 400 V Rated valueA• at DC-12 at 220 V Rated valueA• at DC-13 at 220 V Rated valueA• at DC-12- at 60 V Rated value• at DC-12- at 60 V Rated value• A6	 with the holding power of the coil 		0.9
• for auxiliary contacts2— instantaneous contact2Number of NO contacts2• for auxiliary contacts2— instantaneous contact2Operating current at AC-153• at 230 V Rated valueA• at 230 V Rated valueA• at 400 V Rated valueA• at 0C-12 at 220 V Rated valueA• at DC-13 at 220 V Rated valueA• at DC-12-• at DC-13-• at DC-14-• at DC-15-• at DC-15-• at DC-1			
instantaneous contact2Number of NO contacts	Number of NC contacts		
Number of NO contacts• for auxiliary contacts- instantaneous contact2Operating current at AC-15• at 230 V Rated valueA6• at 400 V Rated valueA9• at 220 V Rated valueA1• at DC-12 at 220 V Rated valueA0• at DC-13 at 220 V Rated valueA• at DC-12- at 60 V Rated valueAAAAAAB• at DC-12- at 60 V Rated valueAAAAAAAB• at DC-12- at 60 V Rated valueAAAAAB• at DC-12- at 60 V Rated valueAAAABABBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB <td> for auxiliary contacts </td> <td></td> <td></td>	 for auxiliary contacts 		
 for auxiliary contacts instantaneous contact 2 Operating current at AC-15 at 230 V Rated value A 6 at 400 V Rated value A operating current at DC-12 at 220 V Rated value A 0.3 Operating current at DC-12 bit DC-	— instantaneous contact		2
- instantaneous contact2Operating current at AC-15-• at 230 V Rated valueA6• at 400 V Rated valueA3Operating current-• at DC-12 at 220 V Rated valueA1• at DC-13 at 220 V Rated valueA0.3Operating current-• at DC-12-A• at DC-12A6	Number of NO contacts	-	
Operating current at AC-15A6• at 230 V Rated valueA3• at 400 V Rated valueA3Operating current• at DC-12 at 220 V Rated valueA1• at DC-13 at 220 V Rated valueA0.3Operating current• at DC-12• at OV Rated valueA6	 for auxiliary contacts 		
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• at 400 V Rated valueA3• at DC-12 at 220 V Rated valueA1• at DC-13 at 220 V Rated valueA0.3• at DC-12- at 60 V Rated valueA	Operating current at AC-15	_	
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• at DC-12 at 220 V Rated valueA1• at DC-13 at 220 V Rated valueA0.3Operating current• at DC-12 at 60 V Rated valueA6	• at 400 V Rated value	А	3
• at DC-13 at 220 V Rated value A 0.3 Operating current - at 60 V Rated value A 6	Operating current		
Operating current • at DC-12 — at 60 V Rated value A	• at DC-12 at 220 V Rated value	А	1
at DC-12 — at 60 V Rated value A 6	• at DC-13 at 220 V Rated value	А	0.3
— at 60 V Rated value A 6	Operating current		
	• at DC-12		
— at 110 V Rated value A 3	— at 60 V Rated value	А	6
	— at 110 V Rated value	А	3

• at DC-13		
— at 24 V Rated value	А	10
— at 60 V Rated value	А	2
— at 110 V Rated value	А	1

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 required 		fuse gL/gG: 10 A
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		
Ambient temperature		
• during operation	°C	-25 +60

 during storage 			°C	-55 +80		
Certificates/ approva	als:					
General Product	Approval				Functional Safety/Safety of Machinery	Declaration of Conformity
ccc	(SA	EHC		D n	Type Examination	EG-Konf.
Test Certificates	Shipping App	proval				other
	Shipping App	Droval	G	_ @@) 5L	RMRS	other Confirmation
Certificates Special Test	ALL COMPANY COMPANY	ĴÅ DNV			RMRS	

Further information

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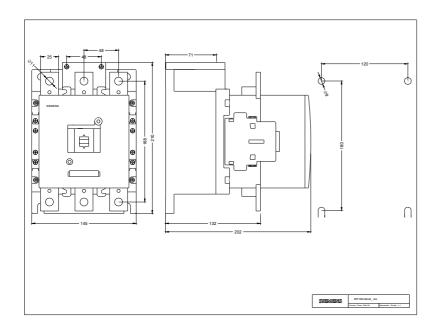
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

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last modified:

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