SIEMENS

Data sheet 3RT1066-6AS36



CONTACTOR, 160KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 500-550V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S10 BAR CONNECTIONS CONVENT. OPERATING MECHANISM SCREW TERMINAL

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		

● at AC-1		
— at 400 V at ambient temperature 40 °C	Α	330
Rated value		
— up to 690 V at ambient temperature 40 °C	Α	330
Rated value		
— up to 690 V at ambient temperature 60 °C	Α	300
Rated value		
• at AC-3		
— at 400 V Rated value	Α	300
— at 690 V Rated value	Α	280
• at AC-4 at 400 V Rated value	Α	280
Operating current with 1 current path		
● at DC-1		
— at 24 V Rated value	Α	300
— at 110 V Rated value	Α	33
• at DC-3 at DC-5		
— at 24 V Rated value	Α	300
— at 110 V Rated value	Α	3
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	300
— at 110 V Rated value	Α	300
• at DC-3 at DC-5		
— at 110 V Rated value	Α	300
— at 24 V Rated value	Α	300
Operating current with 3 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	300
— at 110 V Rated value	Α	300
• at DC-3 at DC-5		
— at 110 V Rated value	Α	300
— at 24 V Rated value	Α	300
Operating power		
• at AC-1 at 400 V Rated value	kW	197
• at AC-2 at 400 V Rated value	kW	171
• at AC-4 at 400 V Rated value	W	160 000
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	113
— at 690 V at 60 °C Rated value	kW	340
— at 690 V Rated value	kW	340
• at AC-3		

— at 230 V Rated value	kW	97
— at 400 V Rated value	kW	171
— at 500 V Rated value	kW	215
— at 690 V Rated value	kW	280
Operating power for ≥ 200000 operating cycles at		
AC-4		
● at 400 V Rated value	kW	71
• at 690 V Rated value	kW	112
Operating frequency		
• at AC-3 maximum	1/h	500

Control circuit/ Control:		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage with AC		
• at 50 Hz Rated value	V	500 550
• at 60 Hz Rated value	V	500 550
Control supply voltage for DC		
Rated value	V	500 550
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	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	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
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: 400 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/ approvals:

General Product Approval
Functional
Safety/Safety
of Machinery

Declaration of
Conformity









Type Examination



Test Certificates

Shipping Approval

Special Test Certificate Type Test
Certificates/Test
Report











other

Environmental Confirmations

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

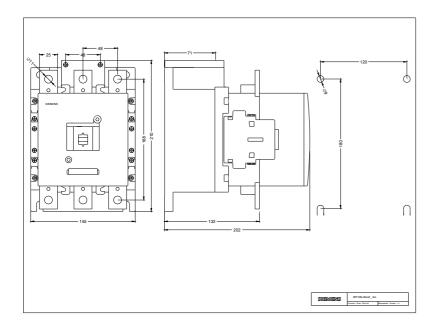
Cax online generator

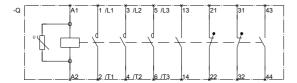
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT10666AS36}$

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

 $\underline{\text{http://support.automation.siemens.com/WW/view/en/3RT10666AS36/all}}$

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10666AS36&lang=en





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

last modified: 11.03.2015