SIEMENS

Data sheet

3RT1056-6AT36



CONTACTOR, 90KW/400V/AC-3, AC(40...60HZ)/DC OPERATION UC 575...600V AUXIL. CONTACTS 2NO+2NC 3-POLE, SIZE S6 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	А	1 480
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	А	215
Rated value		
— up to 690 V at ambient temperature 40 °C	А	215
Rated value		
— up to 690 V at ambient temperature 60 °C	А	185
Rated value		
• at AC-3		
— at 400 V Rated value	A	185
— at 690 V Rated value	A	170
• at AC-4 at 400 V Rated value	А	160
Operating current with 1 current path		
● at DC-1		
— at 24 V Rated value	А	160
— at 110 V Rated value	А	18
• at DC-3 at DC-5		
— at 24 V Rated value	А	160
— at 110 V Rated value	А	2.5
Operating current with 2 current paths in series		
● at DC-1		
— at 24 V Rated value	А	160
— at 110 V Rated value	А	160
• at DC-3 at DC-5		
— at 110 V Rated value	А	160
— at 24 V Rated value	А	160
Operating current with 3 current paths in series		
● at DC-1		
— at 24 V Rated value	А	160
— at 110 V Rated value	А	160
• at DC-3 at DC-5		
— at 110 V Rated value	А	160
— at 24 V Rated value	А	160
Operating power		
• at AC-1 at 400 V Rated value	kW	121
• at AC-2 at 400 V Rated value	kW	104
• at AC-4 at 400 V Rated value	W	90 000
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	70
— at 690 V at 60 °C Rated value	kW	210
— at 690 V Rated value	kW	210
• at AC-3		

	— at 230 V Rated value	kW	61
- at 690 V Rated value KW 167 Operating power for ≥ 200000 operating cycles at AC-4 KW 45 • at 400 V Rated value KW 65 Operating frequency KW 65 • at AC-3 maximum 1/h 750 Control circuit/ Control: XW 65 Operating frequency AC/DC Control circuit/ Control: Type of voltage of the control supply voltage AC/DC Control circuit/ Control: Control circuit/ Control: Y 575 600 Control supply voltage for DC • at 60 Hz Rated value V 575 600 Control supply voltage for DC • Rated value V 575 600 Control supply voltage frequency 2 Rated value Hz 40 Control supply voltage frequency 2 Rated value V 575 600 Control supply voltage frequency 2 Rated value Hz 40 Control supply voltage for DC V 575 600 Control supply voltage for DC Name 40 • at 60 Hz 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 Operating range factor control supply voltage rated value V/A 5.8 5.8 0.8	— at 400 V Rated value	kW	104
Operating power for 2 20000 operating cycles at AC-4 KW 45 • at 400 V Rated value KW 65 Operating frequency • at AC-3 maximum 1/h 750 • at AC-3 maximum 1/h 750 Control circuit/ Control: KW 65 Operating frequency • at AC-3 maximum 1/h 750 Control supply voltage of the control supply voltage AC/DC AC/DC Control supply voltage of the control supply voltage V 575 600 • at 50 Hz Rated value V 575 600 F35 600 Control supply voltage for DC V 575 600 F35 600 • at 80 Hz Rated value V 575 600 F35 600 Control supply voltage frequency 2 Rated value Hz 40 60 Operating range factor control supply voltage rated value of the magnet coll with AC 0.8 1.1 0.8 1.1 Operating range factor control supply voltage rated value of the magnet coll for DC W 300 300 • at 60 Hz 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 Operating rarange factori for DC W 320	— at 500 V Rated value	kW	132
AC-4 • at 400 V Rated value kW 45 • at 690 V Rated value kW 65 Operating frequency • at AC-3 maximum 1/h 750 Control circuit/ Control: Type of voltage of the control supply voltage AC/DC Control supply voltage of the control supply voltage for DC • at 60 Hz Rated value V 575 600 Control supply voltage for DC • Rated value V 575 600 Control supply voltage for DC • Rated value Hz 40 Control supply voltage for Control supply voltage requency 2 Rated value Hz 60 Operating range factor control supply voltage reated value of the magnet coil with AC 0.8 1.1 • at 50 Hz • 0.8 1.1 0.8 1.1 • at 60 Hz Operating range factor control supply voltage rated value of the magnet coil with AC V.A • at 60 Hz 0.8 1.1 0.8 1.1 • Design of the surge suppressor with variator V/A Apparent holding power of the magnet coil with AC V.A 5.8 Closing power of the magnet coil of DC W 5.2 Inductive power of the coil 0.9 0.9 • with closing power of the coil 0.8 0.8 • with closing power of the coil 0.8 0.8	— at 690 V Rated value	kW	167
AC-4 • at 400 V Rated value kW 45 • at 690 V Rated value kW 65 Operating frequency • at AC-3 maximum 1/h 750 Control circuit/ Control: Type of voltage of the control supply voltage AC/DC Control supply voltage of the control supply voltage for DC • at 60 Hz Rated value V 575 600 Control supply voltage for DC • Rated value V 575 600 Control supply voltage for DC • Rated value Hz 40 Control supply voltage for Control supply voltage requency 2 Rated value Hz 60 Operating range factor control supply voltage reated value of the magnet coil with AC 0.8 1.1 • at 50 Hz • 0.8 1.1 0.8 1.1 • at 60 Hz Operating range factor control supply voltage rated value of the magnet coil with AC V.A • at 60 Hz 0.8 1.1 0.8 1.1 • Design of the surge suppressor with variator V/A Apparent holding power of the magnet coil with AC V.A 5.8 Closing power of the magnet coil of DC W 5.2 Inductive power of the coil 0.9 0.9 • with closing power of the coil 0.8 0.8 • with closing power of the coil 0.8 0.8	Operating power for ≥ 200000 operating cycles at		
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• at AC-3 maximum 1/h 750 Control circuit/ Control: Type of voltage of the control supply voltage AC/DC Control supply voltage with AC • at 50 Hz Rated value V • at 60 Hz Rated value V 575 600 Control supply voltage for DC • 600 • Rated value V 575 600 Control supply voltage for DC • 600 • Rated value V 575 600 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 of the magnet coll with AC 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 Operating range factor control supply voltage rated value of the magnet coll with AC V.A 300 Apparent pick-up power of the magnet coll with AC V.A 300 Apparent holding power of the coil 0.9 0.9 0.9 • with clasing power of the coil 0.8 0.8 2 Inductive power factor 0.8<	• at 690 V Rated value	kW	65
Control circuit/ Control: Type of voltage of the control supply voltage AC/DC Control supply voltage with AC • at 50 Hz Rated value V 575 600 • at 60 Hz Rated value V 575 600 Control supply voltage for DC • Rated value V 575 600 • Rated value V 575 600 • Control supply voltage for DC • Rated value V 575 600 • 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 of the magnet coll with AC 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 coil with AC V-A • Apparent holding power of the coil 0.9 • with closing power of the coil 0.9 • with closing power of the coil 0.8 • for auxiliary contacts 2 • for auxiliary contacts	Operating frequency	-	
Type of voltage of the control supply voltage AC/DC Control supply voltage with AC v 575 600 • at 50 Hz Rated value V 575 600 • at 60 Hz Rated value V 575 600 Control supply voltage for DC • • Rated value V 575 600 • 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 of the magnet coll with AC 0.8 1.1 • at 60 Hz 0.8 1.1 0.8 1.1 • ot 60 Hz 0.8 1.1 0.8 1.1 t	• at AC-3 maximum	1/h	750
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• at 50 Hz Rated value V 575 600 • at 60 Hz Rated value V 575 600 Control supply voltage for DC - • Rated value V 575 600 • Rated value V 575 600 • 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 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 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 Apparent pick-up power of the magnet coil with AC V-A Inductive power factor 0.9 • with closing power of the coil 0.9 • with the holding power of the coil 0.8 • with the holding power of the coil 0.8 • tor auxiliary contacts 2 • for auxiliary contacts 2 • for auxiliary contacts 2 • for auxiliary contacts 2<	Type of voltage of the control supply voltage		AC/DC
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• Rated valueV575 600• Rated valueHz40Control supply voltage frequency 2 Rated valueHz60Operating range factor control supply voltage rated value of the magnet coll with AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1Operating range factor control supply voltage rated value of the magnet coll of DC0.8 1.1Design of the surge suppressorwith varistorApparent pick-up power of the magnet coll with ACV·A300Apparent pick-up power of the magnet coll with ACV·A5.8Closing power of the magnet coil for DCW360Holding power of the coil0.90.9• with closing power of the coil0.8• with the holding power of the coil0.8• with the holding power of the coil2Number of NC contacts • for auxiliary contacts2• for auxiliary contacts2• for auxiliary contacts2	• at 60 Hz Rated value	V	575 600
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Control supply voltage frequency 2 Rated value Hz 60 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 varistor Apparent pick-up power of the magnet coll with AC V·A 300 Apparent holding power of the magnet coll for DC W 360 Holding power of the magnet coll for DC W 360 Holding power of the magnet coll for DC W 360 Holding power of the magnet coll for DC W 5.2 Inductive power factor 0.9 0.8 • with closing power of the coll 0.9 0.8 Auxiliary circuit: V:A 5.2 Number of NC contacts 2 2 • for auxiliary contacts 2 · instantaneous contact 2 Number of NO contacts 2 • for auxiliary contacts - • for auxiliary contacts - • for auxiliary contacts -	Rated value	V	575 600
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value of the magnet coil 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 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 300 Apparent holding power of the magnet coil with AC V-A 5.8 Closing power of the magnet coil for DC W 360 Holding power of the magnet coil for DC W 360 Holding power of the magnet coil for DC W 5.2 Inductive power factor 0.9 0.9 • with closing power of the coil 0.8 0.8 Auxiliary circuit: V 2 Number of NC contacts 2 2 • for auxiliary contacts 2	Control supply voltage frequency 2 Rated value	Hz	60
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Design of the surge suppressorwith varistorApparent pick-up power of the magnet coil with ACV·A300Apparent holding power of the magnet coil with ACV·A5.8Closing power of the magnet coil for DCW360Holding power of the magnet coil for DCW5.2Inductive power factor0.9• with closing power of the coil0.8Auxiliary circuit:0.8Number of NC contacts - instantaneous contact2Number of NO contacts • for auxiliary contacts2			0.8 1.1
Apparent pick-up power of the magnet coil with AC V·A 300 Apparent holding power of the magnet coil with AC V·A 5.8 Closing power of the magnet coil for DC W 360 Holding power of the magnet coil for DC W 360 Holding power of the magnet coil for DC W 5.2 Inductive power factor 0.9 • with closing power of the coil 0.8 Auxiliary circuit: 0.8 Auxiliary contacts 2 • for auxiliary contacts 2 • for auxiliary contacts 2 • for auxiliary contacts 0.9 • for auxiliary contacts 2			
Apparent holding power of the magnet coil with AC V·A 5.8 Closing power of the magnet coil for DC W 360 Holding power of the magnet coil for DC W 5.2 Inductive power factor 0.9 • with closing power of the coil 0.8 Auxiliary circuit: 0.8 Number of NC contacts 2 • for auxiliary contacts 2 Number of NO contacts 0 • for auxiliary contacts 0 • for auxiliary contacts 0			
Closing power of the magnet coil for DCW360Holding power of the magnet coil for DCW5.2Inductive power factor0.9• with closing power of the coil0.9• with the holding power of the coil0.8Auxiliary circuit:0.8Number of NC contacts2- instantaneous contact2Number of NO contacts1• for auxiliary contacts1			300
Holding power of the magnet coil for DC W 5.2 Inductive power factor 0.9 • with closing power of the coil 0.9 • with the holding power of the coil 0.8 Auxiliary circuit: V Number of NC contacts 2 - instantaneous contact 2 Number of NO contacts 0.9 • for auxiliary contacts 1 • for auxiliary contacts 2		_	
Inductive power factor 0.9 • with closing power of the coil 0.9 • with the holding power of the coil 0.8 Auxiliary circuit: Number of NC contacts • for auxiliary contacts 2 Number of NO contacts 2			
 with closing power of the coil with the holding power of the coil 0.9 0.8 Auxiliary circuit: Auxiliary circuit: Number of NC contacts • for auxiliary contacts — instantaneous contact Pumber of NO contacts • for auxiliary contacts — instantaneous contact • for auxiliary contacts • for auxiliary contacts		W	5.2
with the holding power of the coil 0.8 Auxiliary circuit: Number of NC contacts - instantaneous contact - instantaneous contact for auxiliary contacts - for auxiliary contacts for auxiliary contacts - for auxiliary contacts			
Auxiliary circuit: Number of NC contacts • for auxiliary contacts — instantaneous contact 2 Number of NO contacts • for auxiliary contacts • for auxiliary contacts			
Number of NC contacts 2 • for auxiliary contacts 2 — instantaneous contact 2 Number of NO contacts 4 • for auxiliary contacts 4	• with the holding power of the coil		0.8
• for auxiliary contacts 2 — instantaneous contact 2 Number of NO contacts 4 • for auxiliary contacts 4			
— instantaneous contact 2 Number of NO contacts 4 • for auxiliary contacts 4			
Number of NO contacts • for auxiliary contacts	 for auxiliary contacts 		
• for auxiliary contacts	— instantaneous contact		2
	Number of NO contacts		
	 for auxiliary contacts 		
— instantaneous contact 2	— instantaneous contact		2
Operating current at AC-15	Operating current at AC-15		
• at 230 V Rated value A 6	• at 230 V Rated value	А	6

• at 400 V Rated value	A	3
Operating current		
 at DC-12 at 220 V Rated value 	A	1
• at DC-13 at 220 V Rated value	A	0.3
Operating current		
• at DC-12		
— 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: 355 A
— with type of assignment 2 required		fuse gL/gG: 315 A
 for short-circuit protection of the auxiliary switch 		fuse gL/gG: 10 A
required		
	_	
required	-	screw fixing
required Installation/ mounting/ dimensions:		screw fixing Yes
required Installation/ mounting/ dimensions: Mounting type	mm	
required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting	mm mm	Yes
required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height	_	Yes 172
required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width	mm	Yes 172 120
required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth	mm	Yes 172 120
required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing	mm	Yes 172 120
required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals:	mm	Yes 172 120 170
required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side	mm	Yes 172 120 170 10
required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals:	mm	Yes 172 120 170 10 screw-type terminals
required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection	mm	Yes 172 120 170 10
required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection • for main current circuit	mm	Yes 172 120 170 10 screw-type terminals
required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection • for main current circuit • for auxiliary and control current circuit	mm	Yes 172 120 170 10 screw-type terminals
required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection • for main current circuit • for auxiliary and control current circuit Type of connectable conductor cross-section	mm	Yes 172 120 170 10 screw-type terminals screw-type terminals
required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection • for main current circuit • for auxiliary and control current circuit Type of connectable conductor cross-section • for AWG conductors for main contacts	mm	Yes 172 120 170 10 screw-type terminals screw-type terminals
required Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection • for main current circuit • for auxiliary and control current circuit Type of connectable conductor cross-section • for AWG conductors for main contacts • for auxiliary contacts	mm	Yes 172 120 170 10 screw-type terminals screw-type terminals 4 250 kcmil 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max. 2x

Mechanical data:					
Size of contactor		S6			
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			

General Produ	ict Approval		Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
(SA)		EHC	Type Examination	EG-Konf.	<u>Type Test</u> Certificates/Test <u>Report</u>
Test Certificates	Shipping Ap	proval			other

other				
Confirmation	other			

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

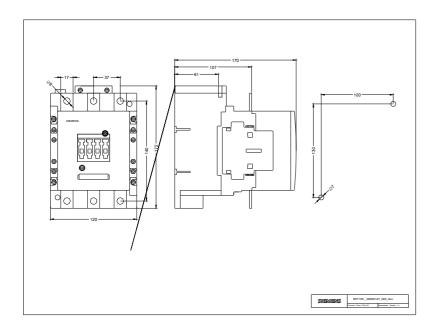
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10566AT36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT10566AT36/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=3RT10566AT36&lang=en





last modified:

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

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