SIEMENS

Data sheet

3RT1056-2AS36



CONTACTOR, 90KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 500-550V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S6 BAR CONNECTIONS CONVENT. OPERATING MECHANISM CAGE CLAMP 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-		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	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		
Rated valueA- up to 690 V at ambient temperature 60 °CA215Rated valueA185- up to 690 V at ambient temperature 60 °CA185Rated valueA185- at 400 V Rated valueA160- at 400 V Rated valueA160- at 400 V Rated valueA160- at 42 V Rated valueA185- at 24 V Rated valueA180- at 24 V Rated valueA180- at 24 V Rated valueA180- at 10 V Rated valueA25Operating current with 2 current paths in series at 24 V Rated valueA160- at 10 V Rated valueA160- at 10 V Rated valueA160- at 24 V Rated valueA160- at 10 V Rated valueA160- at 24 V Rated valueA160- at 10 V Rated valueA160- at 24 V Rated valueA160- at 10 V Rated valueA160	— at 400 V at ambient temperature 40 °C	А	215
Rated valueA185- up to 680 V at ambient temperature 60 °CA185- at 400 V Rated valueA185- at 400 V Rated valueA170- at 660 V Rated valueA160- at 640 V Rated valueA160- at 10 V Rated valueA160- at 24 V Rated valueA160- at 10 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueA160- at 10 V Rated valueA160- at 10 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 110 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueA160- at 100 V Rated valueA160 <td></td> <td></td> <td></td>			
	— up to 690 V at ambient temperature 40 $^\circ C$	А	215
Rated valueA• at AC-3A- at 400 V Rated valueA100• at AC-3 at 00 V Rated valueA• at 600 V Rated valueA0erating current with 1 current pathA• at 0C-1 at 24 V Rated valueA0erating current with 2 current pathA• at 0C-3 at DC-5- at 10 V Rated valueA- at 24	Rated value		
• at AC-3 Image: Constraint of the second of t		А	185
at AC-4 at 400 V Rated valueA160Operating current with 1 current path • at DC-1A160- at 24 V Rated valueA18• at DC-3 at DC-5A160- at 24 V Rated valueA2.5Operating current with 2 current paths in series • at DC-1A160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 110 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160 <t< td=""><td>— at 400 V Rated value</td><td>A</td><td></td></t<>	— at 400 V Rated value	A	
Operating current with 1 current path • at DC-1 Image: current with 2 current paths • at 24 V Rated value A 160 - at 110 V Rated value A 18 • at DC-3 at DC-5 - - - at 24 V Rated value A 160 - at 100 V Rated value A 160 - at 100 V Rated value A 2.5 Operating current with 2 current paths in series - - • at DC-1 - - - - at 24 V Rated value A 160 - - at 24 V Rated value A 160 - - at 10 V Rated value A 160 - - at 10 V Rated value A 160 - - at 24 V Rated value A 160 - - at 10 V Rated value A 160 - - at 24 V Rated value A 160 - - at 24 V Rated value A 160 - - at 10 V Rated value A 160 - - at 110 V Rated value	— at 690 V Rated value	A	170
• at DC-1 A 160 - at 24 V Rated value A 18 • at DC-3 at DC-5 - - - at 24 V Rated value A 160 - at 110 V Rated value A 2.5 Operating current with 2 current paths in series - - • at DC-1 - - - - at 24 V Rated value A 160 - - at 24 V Rated value A 160 - - at 24 V Rated value A 160 - - at 24 V Rated value A 160 - - at 10 V Rated value A 160 - - at 24 V Rated value A 160 - - at 24 V Rated value A 160 - - at 24 V Rated value A 160 - - at 10 V Rated value A 160 - - at 110 V Rated value A 160 - - at 110 V Rated value A 160 - - at 24 V Rated value A 160 - - at 400 V Rated value KW	• at AC-4 at 400 V Rated value	А	160
	Operating current with 1 current path		
	● at DC-1		
• at DC-3 at DC-5 I - at 24 V Rated value A 160 - at 110 V Rated value A 2.5 Operating current with 2 current paths in series Image: Control of C Rated value A - at 24 V Rated value A 160 - at 110 V Rated value A 160 - at 10 V Rated value A 160 - at 24 V Rated value A 160 - at 24 V Rated value A 160 - at 24 V Rated value A 160 - at 110 V Rated value A 160 - at 24 V Rated value KW	— at 24 V Rated value	А	160
- at 24 V Rated valueA160- at 110 V Rated valueA2.5Operating current with 2 current paths in series • at DC-1 at 24 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 10 V Rated valueA160- at 10 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueKW121- at 24 V Rated valueKW104- at 24 V Rated valueKW90 000Operating power at 250 V at 60 °C Rated valueKW70- at 690 V at 60 °C Rated valueKW210- at 690 V Rated valueKW210	— at 110 V Rated value	А	18
	● at DC-3 at DC-5		
Operating current with 2 current paths in seriesImage: current with 2 current paths in series• at DC-1 at 24 V Rated valueA- at 110 V Rated valueA• at DC-3 at DC-5 at 110 V Rated valueA- at 110 V Rated valueA- at 24 V Rated valueA- at 110 V Rated valueA- at 24 V Rated valueA- at 100 V Rated valueA- at 24 V Rated valueW- at 260 V Rated valueKW- a	— at 24 V Rated value	А	160
• at DC-1 / / / - at 24 V Rated value A / / - at 110 V Rated value A / / - at 10 V Rated value A / / - at 110 V Rated value A / / - at 110 V Rated value A / / - at 24 V Rated value A / / - at 24 V Rated value A / / - at 24 V Rated value A / / - at 24 V Rated value A / / - at 24 V Rated value A / / - at 24 V Rated value A / / - at 110 V Rated value A / / - at 110 V Rated value A / / - at 24 V Rated value A / / - at 24 V Rated value A / / - at 24 V Rated value A / / - at 24 V Rated value KW / / - at 24 V Rated value KW / / <t< td=""><td>— at 110 V Rated value</td><td>А</td><td>2.5</td></t<>	— at 110 V Rated value	А	2.5
- at 24 V Rated valueA160- at 110 V Rated valueA160at DC-3 at DC-5 at 110 V Rated valueA160- at 24 V Rated valueA160Operating current with 3 current paths in series at 24 V Rated valueA160- at 110 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueKW121- at 400 V Rated valueKW104- at A00 V Rated valueKW90 000- at A00 V Rated valueKW70- at 230 V at 60 °C Rated valueKW70- at 690 V Rated valueKW210- at 690 V Rated valueKW210	Operating current with 2 current paths in series		
A the function functionA160- at 110 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueA160Operating current with 3 current paths in series at 24 V Rated valueA160- at 24 V Rated valueA160- at 10 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at AC-1 at 400 V Rated valueKW121- at AC-4 at 400 V Rated valueKW104- at AC-1 at 400 V Rated valueKW70- at 230 V at 60 °C Rated valueKW210- at 690 V Rated valueKW210	• at DC-1		
A the trace when trade when tr	— at 24 V Rated value	А	160
- at 110 V Rated valueA160- at 24 V Rated valueA160Operating current with 3 current paths in series • at DC-1 at 24 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueKW121- at 24 V Rated valueKW104- at AC-1 at 400 V Rated valueW90 000• at AC-2 at 400 V Rated valueW90 000• at AC-1 at 230 V at 60 °C Rated valueKW70- at 690 V at 60 °C Rated valueKW210- at 690 V Rated valueKW210	— at 110 V Rated value	А	160
InterventionA160Operating current with 3 current paths in series • at DC-1Image: Constraint of the series • at DC-1Image: Constraint of the series • at DC-1	• at DC-3 at DC-5		
Operating current with 3 current paths in seriesA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueA160Operating power• at AC-1 at 400 V Rated valueKW121• at AC-2 at 400 V Rated valueKW104• at AC-4 at 400 V Rated valueW90 000Operating power• at AC-1 at 230 V at 60 °C Rated valueKW70- at 690 V at 60 °C Rated valueKW210- at 690 V Rated valueKW210	— at 110 V Rated value	А	160
• at DC-1 A 160 - at 24 V Rated value A 160 - at 110 V Rated value A 160 • at DC-3 at DC-5 - - - at 110 V Rated value A 160 - at 24 V Rated value A 160 - 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 690 V at 60 °C Rated value KW 210 - at 690 V Rated value	— at 24 V Rated value	А	160
at 24 V Rated valueA160at 110 V Rated valueA160• at DC-3 at DC-5at 110 V Rated valueA160at 24 V Rated valueA160at 24 V Rated valueKW121• at AC-1 at 400 V Rated valueKW104• at AC-2 at 400 V Rated valueW90 000• at AC-4 at 400 V Rated valueKW104• at AC-1	Operating current with 3 current paths in series		
- at 110 V Rated valueA160• at DC-3 at DC-5-A160- at 110 V Rated valueA160- at 24 V Rated valueA160Operating power• at AC-1 at 400 V Rated valueKW121• at AC-2 at 400 V Rated valueKW104• at AC-2 at 400 V Rated valueW90 000Operating power• at AC-4 at 400 V Rated valueW90 000• at AC-1• at AC-1 at 230 V at 60 °C Rated valueKW70- at 690 V at 60 °C Rated valueKW210- at 690 V Rated valueKW210	• at DC-1		
• at DC-3 at DC-5I- at 110 V Rated valueA160- at 24 V Rated valueA160Operating power-• at AC-1 at 400 V Rated valuekW121• at AC-2 at 400 V Rated valuekW104• at AC-2 at 400 V Rated valueW90 000Operating power• at AC-4 at 400 V Rated valueW90 000• at AC-4 at 400 V Rated valueW90 000• at AC-1• at AC-1 at 230 V at 60 °C Rated valueKW70- at 690 V Rated valuekW210- at 690 V Rated valuekW210	— at 24 V Rated value	А	160
- at 110 V Rated value A 160 - at 24 V Rated value A 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 - at AC-4 at 400 V Rated value W 90 000 - at AC-4 at 400 V Rated value W 90 000 - at AC-4 at 400 V Rated value W 90 000 - at AC-1 - - - at AC-1 - - - at 230 V at 60 °C Rated value KW 70 - at 690 V Rated value KW 210 - at 690 V Rated value KW 210	— at 110 V Rated value	А	160
at 24 V Rated valueA160Operating power• at AC-1 at 400 V Rated valuekW121• at AC-2 at 400 V Rated valuekW104• at AC-2 at 400 V Rated valueW90 000• at AC-4 at 400 V Rated valueW90 000Operating power• at AC-1 at 230 V at 60 °C Rated valueKW70- at 690 V at 60 °C Rated valuekW210- at 690 V Rated valuekW210	• at DC-3 at DC-5		
Operating power• at AC-1 at 400 V Rated valuekW121• at AC-2 at 400 V Rated valuekW104• at AC-4 at 400 V Rated valueW90 000• at AC-4 at 400 V Rated valueV90 000• at AC-1• at AC-1 at 230 V at 60 °C Rated valuekW70- at 690 V at 60 °C Rated valuekW210- at 690 V Rated valuekW210	— at 110 V Rated value	А	160
• at AC-1 at 400 V Rated valuekW121• at AC-2 at 400 V Rated valuekW104• at AC-4 at 400 V Rated valueW90 000Operating powerV90 000• at AC-1 at 230 V at 60 °C Rated valuekW70- at 690 V at 60 °C Rated valuekW210- at 690 V Rated valuekW210	— at 24 V Rated value	А	160
• at AC-2 at 400 V Rated value kW 104 • at AC-4 at 400 V Rated value W 90 000 Operating power	Operating power		
• at AC-4 at 400 V Rated valueW90 000Operating powerKF• at AC-1- at 230 V at 60 °C Rated valuekW- at 690 V at 60 °C Rated valuekW70- at 690 V at 60 °C Rated valuekW210- at 690 V Rated valuekW210	• at AC-1 at 400 V Rated value	kW	121
Operating powerImage: Comparison of the c	• at AC-2 at 400 V Rated value	kW	104
• at AC-1 — at 230 V at 60 °C Rated value	• at AC-4 at 400 V Rated value	W	90 000
- 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	Operating power		
at 690 V at 60 °C Rated valuekW210 at 690 V Rated valuekW210	• at AC-1		
— at 690 V Rated value kW 210	— at 230 V at 60 °C Rated value	kW	70
	— at 690 V at 60 °C Rated value	kW	210
• at AC-3	— at 690 V Rated value	kW	210
	• at AC-3		

— at 230 V Rated value	kW	61
— at 400 V Rated value	kW	104
— at 500 V Rated value	kW	132
— at 690 V Rated value	kW	167
Operating power for ≥ 200000 operating cycles at		
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 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	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	5.2
Inductive power factor		
 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 		
— instantaneous contact		2
Number of NO contacts		
 for auxiliary contacts 		
— instantaneous contact		2
Operating current at AC-15		
• at 230 V Rated value	А	6

	٨	2
at 400 V Rated value	A	3
Operating current	•	1
• 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	A	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		
Installation/ mounting/ dimensions:		
Mounting type		screw fixing
Side-by-side mounting		Yes
Height	mm	172
Width	mm	120
Depth	mm	170
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		4 250 kcmil
• for auxiliary contacts		
— solid		2x (0.25 2.5 mm²)
 — finely stranded with core end processing 		2x (0.25 1.5 mm ²)
 — finely stranded with core end processing — finely stranded without core end 		2x (0.25 2.5 mm ²)
processing		
P		

• for AWG conductors for auxiliary contacts					2x (24 14)		
Mechanical data:							
Size of contactor				S6			
Ambient condition	IS:						
Installation altitude at height above sea level		m		2 000			
maximum	aximum						
Ambient temperate	ure						
 during opera 	peration °C		°C		-25 +60		
 during storage 	је		°C		-55 +80		
Certificates/ appro		_					
General Produ	ıct Approval		Functional Safety/Safety of Machinery		ty/Safety achinery	Declaration of Conformity	Test Certificates
CSA	EHC			Туре	Examination	CE EG-Konf.	Special Test Certificate
Shipping Appr	oval					other	
Shipping Appr ABS	roval	GL		RM	RS	other other	Environmental Confirmations

Confirmation

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

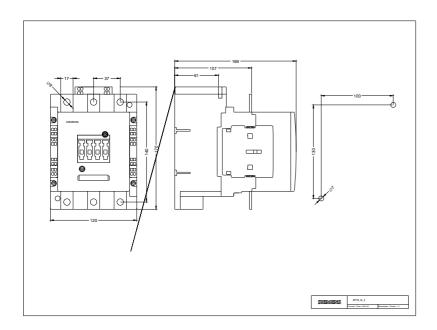
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10562AS36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT10562AS36/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=3RT10562AS36&lang=en





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