SIEMENS

Data sheet

3RT1055-6AP36



CONTACTOR, 75KW/400V/AC-3, AC(40...60HZ)/DC OPERATION UC 220...240V AUXIL. CONTACTS 2NO+2NC 3-POLE, SIZE S6 BAR CONNECTIONS CONVENTIONAL OPERATING MECHAN. SCREW TERMINAL

product brand name	SIRIUS			
Product designation	power contactor			
General technical data:				
Size of contactor	S6			
Insulation voltage				
Rated value	1 000 V			
Degree of pollution	3			
Surge voltage resistance Rated value	8 kV			
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			
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			
Ambient conditions:				
Installation altitude at height above sea level maximum	2 000 m			
Ambient temperature				
 during operation 	-25 +60 °C			

• during storage	-55 +80 °C
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
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	70 mm ²
• at 40 °C minimum permissible	95 mm²
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C Rated value	185 A
• at AC-1 up to 690 V	
— at ambient temperature 40 °C Rated value	185 A
— at ambient temperature 60 °C Rated value	160 A
• at AC-3	
— at 400 V Rated value	150 A
— at 690 V Rated value	150 A
• at AC-4 at 400 V Rated value	132 A
Operating current for ≥ 200000 operating cycles at AC-4	
• at 400 V Rated value	68 A
• at 690 V Rated value	57 A
Operating current	
 with 1 current path at DC-1 	
— at 24 V Rated value	160 A
— at 110 V Rated value	18 A
 with 2 current paths in series at DC-1 	
— at 24 V Rated value	160 A
— at 110 V Rated value	160 A
 with 3 current paths in series at DC-1 	
— at 24 V Rated value	160 A
— at 110 V Rated value	160 A
Operating current	
 with 1 current path at DC-3 at DC-5 	
— at 24 V Rated value	160 A
— at 110 V Rated value	2.5 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 110 V Rated value	160 A
— at 24 V Rated value	160 A
• with 3 current paths in series at DC-3 at DC-5	

— at 110 V Rated value	160 A
— at 24 V Rated value	160 A
Operating power	
● at AC-1	
— at 230 V at 60 °C Rated value	60 kW
— at 690 V at 60 °C Rated value	181 kW
Operating power for \geq 200000 operating cycles at	
AC-4	
• at 400 V Rated value	38 kW
• at 690 V Rated value	55 kW
Thermal short-time current restricted to 10 s	1 300 A
Active power loss at AC-3 at 400 V for rated value of	9 W
the operating current per conductor	
No-load switching frequency	0.000.44
• with AC	2 000 1/h
• for DC	2 000 1/h
Operating frequency	
● at AC-1 maximum	800 1/h
• at AC-2 maximum	300 1/h
• at AC-3 maximum	750 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control:	
Type of voltage of the control supply voltage	AC/DC
Control supply voltage with AC	
• at 50 Hz Rated value	220 240 V
• at 60 Hz Rated value	220 240 V
Control supply voltage for DC	
Rated value	220 240 V
Rated value	40 Hz
Control supply voltage frequency 2 Rated value	60 Hz
Operating range factor control supply voltage rated value of the magnet coil with AC	

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 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	300 V·A
Inductive power factor with closing power of the coil	0.9
Apparent holding power of the magnet coil with AC	5.8 V·A
Inductive power factor with the holding power of the coil	0.8
Closing power of the magnet coil for DC	360 W

Closing delay • with AC 20 95 ms • for DC 20 95 ms Arcing time 10 15 ms Auxiliary circuit: Number of NC contacts 2 • for auxiliary contacts 2 • instantaneous contact 2 Number of NC contacts 2 • for auxiliary contacts 2 • at 200 V Rated value 6 A • at 200 V Rated value 6 A • at 200 V Rated value 1 A • at 220 V Rated value 2 A • at 220 V Rated value 2 A • at 220 V Rated value 2 A • at 200 V Rated value 2 A • at 220 V Rated value 3 A • at 220 V Rated value 3 A • at 220 V Rated value	Helding newer of the magnet call for DC	5.2 W
• with AC20 95 ms• for DC20 95 msArcing time10 15 ms• Arcing time2• Number of NC contacts2- instantaneous contact2• for auxiliary contacts2- instantaneous contact2• for auxiliary contacts2- instantaneous contact2- instantaneous contact2Operating current at AC-12 maximum10 AOperating current at AC-15-• at 230 V Rated value6 A• at 230 V Rated value6 A• at 200 V Rated value3 AOperating current at DC-12-• at 60 V Rated value1 AOperating current at DC-13-• at 230 V Rated value1 A• at 200 V Rated value2 A• at 200 V Rated value3 A• at 200 V Rated value3 A• at 200 V Rated value3 A• at 200 V Rated value10 A• at 200 V Rated value3 A• at 200 V Rated value3 A• at 200 V Rated value1 A• at 200 V Rated value1 A• of bort-circuit protection of the main circuit - with type of assignment 1 required if fuse gL/GS: 355 A• for short-circuit protection of the main circuit - with type of assignment 1 required if use gL/GS: 315 A• for short-circuit protection of the main circuit - with type of assignment 1 required if use gL/GS: 315 A• for short-circuit protection of the main circuit - with type of assignment 1 required if use gL/GS: 315 A <td< td=""><td>Holding power of the magnet coil for DC</td><td>J.Z VV</td></td<>	Holding power of the magnet coil for DC	J.Z VV
• for DC20 95 msArcing time10 15 msAuxilary circuitNumber of NC contacts2• for auxilary contacts2- instantaneous contact2• for auxilary contacts2- instantaneous contact2• for auxilary contacts2- instantaneous contact2Operating current at AC-12 maximum10 AOperating current at AC-15		20 05 mg
Arcing time 1015 ms Auxiliary contacts Image of NC contacts • for auxiliary contacts 2 • Image of NC contacts 2 • Image of NC contacts 2 • Image of NC contacts 2 • Instantaneous contact 2 • Image of NC contacts 2 • at 200 V Rated value 0 A • at 20 V Rated value 10 A • at 20 V Rated value 10 A • at 20 V Rated value 2A • at 20 V Rated value 10 A • at 20 V Rated value 10 A • at 20 V Rated value 10 A <td></td> <td></td>		
Number of NC contacts 2 Number of NC contacts 2 - instantaneous contact 2 Number of NC contacts 2 - instantaneous contact 2 Operating current at AC-12 maximum 10 A Operating current at AC-15 6 - at 200 V Rated value 6 A - at 200 V Rated value 3 A Operating current at DC-12		
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-12 maximum 10 A Operating current at AC-17 6 A • at 200 V Rated value 6 A • at 400 V Rated value 6 A • at 20 V Rated value 6 A • at 10 V Rated value 3 A Operating current at DC-12 • • at 60 V Rated value 1 A Operating current at DC-13 • • at 20 V Rated value 1 A Operating current at DC-13 • • at 20 V Rated value 1 A Operating current at DC-13 • • at 20 V Rated value 2 A • at 20 V Rated value 1 A Operating current at BC-13 • • at 20 V Rated value 0 A • at 20 V Rated value 1 A • Description A600 / Q600 Short-circuit Short-circuit Design of the fuse link fuse gL/g6: 355 A - with type of assignment 2 required fuse gL/g6: 355 A - with type of assignment 2 required fuse gL/g6: 315 A	Arcing time	10 15 ms
• for auxiliary contacts2Number of NO contacts2• for auxiliary contacts2• for auxiliary contacts2- instantaneous contact2Operating current at AC-1510 A• at 230 V Rated value6 A• at 320 V Rated value6 A• at 400 V Rated value6 A• at 400 V Rated value6 A• at 600 V Rated value6 A• at 220 V Rated value1 A• at 220 V Rated value10 A• at 220 V Rated value	Auxiliary circuit:	
	Number of NC contacts	
Number of NO contacts	 for auxiliary contacts 	
• for auxiliary contacts2Operating current at AC-12 maximum10 AOperating current at AC-156• at 230 V Rated value6 A• at 400 V Rated value6 A• at 400 V Rated value6 A• at 60 V Rated value10 A• at 60 V Rated value10 A• at 220 V Rated value10 A• at 24 V Rated value10 A• at 20 V Rated value0 3 A• at 20 V Rated value10 A• broshort-circuit protection of the main circuit 	— instantaneous contact	2
- instantaneous contact2Operating current at AC-12 maximum10 AOperating current at AC-156 A• at 230 V Rated value6 A• at 400 V Rated value6 A• at 400 V Rated value6 A• at 60 V Rated value6 A• at 10 V Rated value6 A• at 220 V Rated value1 AOperating current at DC-13-• at 24 V Rated value10 A• at 20 V Rated value2 A• at 10 V Rated value0.3 A• at 220 V Rated value0.3 A• at 220 V Rated value1 A• bros bort-circuit protection of the main circuit - with type of assignment 1 requiredfuse gL/gG: 355 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 315 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 315 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 A• fuse gL/gG: 10 Afuse gL/gG: 10 A• fuse gL/gG: 10 Afuse gL/gG: 10 A• fuse fuse mountingYes• Height120	Number of NO contacts	
Operating current at AC-12 maximum 10 A Operating current at AC-15 - • at 230 V Rated value 6 A • at 400 V Rated value 3A Operating current at DC-12 - • at 60 V Rated value 6 A • at 200 V Rated value 6 A • at 200 V Rated value 1 A Operating current at DC-13 - • at 220 V Rated value 10 A • at 220 V Rated value 10 A • at 220 V Rated value 0.0 A • at 20 V Rated value 0.0 A • at 20 V Rated value 0.0 A • at 20 V Rated value 0.3 A • at 220 V Rated value 0.3 A • at 220 V Rated value 0.3 A • at 220 V Rated value 1 A • or of the fuse link ing (sig (sig (sig (sig (sig (sig (s	 for auxiliary contacts 	
Operating current at AC-156 A• at 230 V Rated value6 A• at 400 V Rated value3 AOperating current at DC-126 A• at 60 V Rated value6 A• at 200 V Rated value1 A• at 220 V Rated value10 A• at 220 V Rated value2 A• at 60 V Rated value10 A• at 24 V Rated value10 A• at 220 V Rated value1 A• at 220 V Rated value2 A• at 220 V Rated value0.3 A• at 220 V Rated value0.3 A• at 220 V Rated value1 A• or 100 K Torenting provention of the main circuit required1 A• or 100 K Torenting of the auxiliary switch required1 A• or 100 K Torenting of the auxiliary switch required1 A	— instantaneous contact	2
• at 230 V Rated value6 A• at 400 V Rated value3 AOperating current at DC-126 A• at 60 V Rated value6 A• at 110 V Rated value3 A• at 220 V Rated value1 AOperating current at DC-130 A• at 24 V Rated value10 A• at 60 V Rated value2 A• at 10 V Rated value1 AOperating current at DC-130 A• at 24 V Rated value1 A• at 60 V Rated value2 A• at 10 V Rated value3 A• at 220 V Rated value0.3 AU/CSA ratings:A600 / Q600Short-circuitA600 / Q600Short-circuit protection of the main circuit - with type of assignment 1 requiredfuse gL/gG: 355 A• for short-circuit protection of the main circuit - with type of assignment 2 requiredfuse gL/gG: 315 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 315 A• fuse gL/gG: 315 Afuse gL/gG: 315 A• fuse gL/gG: 315 Afuse gL/gG: 315 A• fuse gL/gG: 316 Afuse gL/gG: 316 A• fuse gL/gG: 316 Afuse gL/gG: 10 A• restalator/ mounting/ dimensions:Yes• Mounting type • Side-by-side mountingYesHeight172 mmWidth120 mm• Depth170 mm	Operating current at AC-12 maximum	10 A
at 400 V Rated value 3 A Operating current at DC-12 6 A • at 60 V Rated value 6 A • at 110 V Rated value 3 A • at 220 V Rated value 1 A Operating current at DC-13 10 A • at 24 V Rated value 10 A • at 24 V Rated value 2 A • at 100 V Rated value 1 A Operating current at DC-13 10 A • at 24 V Rated value 2 A • at 10 V Rated value 1 A • at 20 V Rated value 0.3 A JL/CSA ratings: Contact rating of the auxiliary contacts acc. to UL A600 / 0600 Short-circuit: A600 / 0600 Short-circuit: - with type of assignment 1 required fuse gL/gG: 355 A • for short-circuit protection of the main circuit - with type of assignment 2 required fuse gL/gG: 10 A • for short-circuit protection of the auxiliary switch fuse gL/gG: 10 A fuse gL/gG: 10 A required Side-by-side mounting Yes Height 172 mm Yes Height 120 mm 120 mm	Operating current at AC-15	
Autor A	• at 230 V Rated value	6 A
• at 60 V Rated value6 A• at 110 V Rated value3 A• at 220 V Rated value1 AOperating current at DC-1310 A• at 24 V Rated value10 A• at 60 V Rated value2 A• at 110 V Rated value1 A• at 220 V Rated value0.3 AU/CSA ratings:Contact rating of the auxiliary contacts acc. to ULA600 / Q600Short-circuit:Design of the fuse link• for short-circuit protection of the main circuit- with type of assignment 1 required• for short-circuit protection of the auxiliary switch• for short-circuit protection of the auxiliary switch<	• at 400 V Rated value	3 A
at 110 V Rated value3 A• at 120 V Rated value1 AOperating current at DC-1310 A• at 24 V Rated value10 A• at 60 V Rated value2 A• at 110 V Rated value1 A• at 220 V Rated value0.3 A• at 220 V Rated value0.3 A <i>U/CSA ratings:</i> Contact rating of the auxiliary contacts acc. to ULA600 / Q600Short-circuitDesign of the fuse link • for short-circuit protection of the main circuit — with type of assignment 1 requiredfuse gL/gG: 355 A• with type of assignment 2 requiredfuse gL/gG: 315 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 Aneuting typescrew fixing• Side-by-side mountingYesHeight172 mmWidth120 mmDepth170 mm	Operating current at DC-12	
at 220 V Rated value 1 A Operating current at DC-13 10 A • at 24 V Rated value 10 A • at 60 V Rated value 2 A • at 10 V Rated value 1 A • at 220 V Rated value 0.3 A U/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 • for short-circuit protection of the auxiliary switch fuse gL/gG: 315 A • for short-circuit protection of the auxiliary switch fuse gL/gG: 10 A retailation/ mounting/ dimensions: Mounting type screw fixing • Side-by-side mounting Yes Height 172 mm Width 120 mm Depth 170 mm	• at 60 V Rated value	6 A
Operating current at DC-13 at 24 V Rated value at 24 V Rated value at 60 V Rated value at 110 V Rated value at 220 V Rated value at 220 V Rated value 1 A at 220 V Rated value at 220 V Rated value 0.3 A ///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 fuse gL/gG: 315 A for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A nstallation/ mounting/ dimensions: Mounting type Side-by-side mounting Yes Height 172 mm Width 120 mm Depth 170 mm	• at 110 V Rated value	3 A
• at 24 V Rated value10 A• at 60 V Rated value2 A• at 110 V Rated value1 A• at 220 V Rated value0.3 AJJ/CSA ratings:A600 / Q600JJ/CSA rating of the auxiliary contacts acc. to ULA600 / Q600Short-circuit:	• at 220 V Rated value	1 A
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• at 220 V Rated value0.3 AJJ/CSA ratings:Contact rating of the auxiliary contacts acc. to ULA600 / Q600Short-circuit:Design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 1 required • with type of assignment 2 required • for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 355 A fuse gL/gG: 315 A fuse gL/gG: 10 ANotalitation/ mounting/ dimensions:Mounting type • Side-by-side mountingscrew fixing YesHeight Width Depth172 mm 170 mm	• at 60 V Rated value	2 A
JL/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 required fuse gL/gG: 10 A	• at 110 V Rated value	1 A
Contact rating of the auxiliary contacts acc. to UL A600 / Q600 Short-circuit:	• at 220 V Rated value	0.3 A
Contact rating of the auxiliary contacts acc. to UL A600 / Q600 Short-circuit:		
Short-circuit: Design of the fuse link • for short-circuit protection of the main circuit - with type of assignment 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • Side-by-side mounting • Side-by-side mounting • Side-by-side mounting • Side-by-side mounting <th></th> <th>A600 / O600</th>		A600 / O600
Design of the fuse linkIsse gL/gG: 355 A• for short-circuit protection of the main circuitfuse gL/gG: 355 A— with type of assignment 1 requiredfuse gL/gG: 315 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 A• fuse gL/gG: 10 Afuse gL/gG: 10 A• fuse gL/gG: 10 AYes• Side-by-side mountingYes• Side-by-side mounting172 mm• Width120 mm• Depth170 mm		
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with type of assignment 2 requiredfuse gL/gG: 315 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 Anstallation/ mounting/ dimensions:Mounting typescrew fixing• Side-by-side mountingYesHeight172 mmWidth120 mmDepth170 mm	 for short-circuit protection of the main circuit 	
• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 Anstallation/ mounting/ dimensions:Mounting type • Side-by-side mountingscrew fixingHeight172 mmWidth120 mmDepth170 mm	 — with type of assignment 1 required 	fuse gL/gG: 355 A
required state of the second state of the seco	 — with type of assignment 2 required 	fuse gL/gG: 315 A
nstallation/ mounting/ dimensions: Mounting type screw fixing • Side-by-side mounting Yes Height 172 mm Width 120 mm Depth 170 mm		fuse gL/gG: 10 A
Mounting typescrew fixing• Side-by-side mountingYesHeight172 mmWidth120 mmDepth170 mm	required	
• Side-by-side mountingYesHeight172 mmWidth120 mmDepth170 mm	Installation/ mounting/ dimensions:	
Height 172 mm Width 120 mm Depth 170 mm		screw fixing
Width 120 mm Depth 170 mm	Side-by-side mounting	Yes
Depth 170 mm	Height	172 mm
	Width	120 mm
Required spacing	Depth	170 mm
	Required spacing	

 for grounded pa — at the side 	irts		10 mm				
Connections/ Termin	als:						
Type of electrical con	nection						
 for main current 	circuit		screw-type te	crew-type terminals			
 for auxiliary and 	control current ci	rcuit	screw-type terminals				
Type of connectable of	conductor cross-se	ection					
 for AWG conduct 	ctors for main con	tacts	4 250 kcm	1			
Type of connectable of	conductor cross-se	ection					
 for auxiliary con 	tacts						
— solid			2x (0.5 1.5	mm²), 2x (0).75 2.5 mm²), max	x. 2x (0.75 4 mm²)	
— finely stran	ded with core end	processing	2x (0.5 1.5	mm²), 2x (0).75 2.5 mm²)		
 for AWG conduct 	ctors for auxiliary	contacts	2x (20 16),	2x (18 14	4), 1x 12		
Certificates/ approva							
General Product		EHC	UL) ing Approv	Functional Safety/Safety of Machinery Type Examination	Declaration of Conformity	
<u>Type Test</u> Certificates/Test <u>Report</u>	Special Test Certificate	<u>other</u>	ABS	State of	DNV DNV	GL	
Shipping Approval	other						
RMRS	other	Environmer Confirmatio		<u>irmation</u>			

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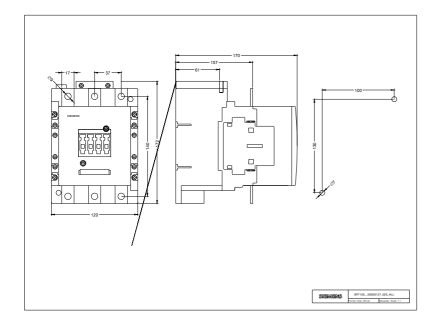
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