SIEMENS

Data sheet

3RT1054-6XJ46-0LA2

Contactor AC3: 55 kW / 400 V Coil DC 72 V x (0,7...1,25) PLC input DC 24...110 V auxiliary contacts: 2 NO + 2 NC 3-pole Size S6 busbar connections coil terminals: screw type screw terminal



Figure similar

Product brand name	SIRIUS			
Product designation	Power contactor			
Product type designation	3RT1			
General technical data				
Size of contactor	S6			
Product extension	ar			
Auxiliary switch	Yes			
Surge voltage resistance rated value	8 kV			
maximum permissible voltage for safe isolation	56 			
 between coil and main contacts acc. to EN 	690 V			
60947-1				
Protection class IP	-			
• on the front	IP00; IP20 on the front with cover / box terminal			
• of the terminal	IP00			
Shock resistance				
 for railway applications acc. to DIN EN 61373 	Category 1, Class B			
Shock resistance at rectangular impulse				

Installation altitude at height above sea level 2 000 m Ambient temperature 40 +70 °C • during operation -40 +70 °C • during storage -55 +80 °C Main circuit 3 Number of poles for main current circuit 3 Number of NO contacts for main contacts 3 Operating voltage 0 • at AC-3 rated value maximum 1 000 V Operating current • at AC-1 rated value maximum • at AC-1 rated value maximum 160 A • at AC-1 - up to 690 V at ambient temperature 40 °C rated value • at AC-1 - up to 690 V at ambient temperature 60 °C rated value • at AC-2 at 400 V rated value - up to 690 V at ambient temperature 60 °C rated value 140 A - at 00 V rated value 115 A - at 400 V rated value 115 A - at 600 V rated value 115 A - at 600 V rated value 115 A - at 60 °C minimum permissible 50 mm² • at 40 °C minimum permissible 70 mm² • at 40 °C minimum permissible 70 mm² • at 400 V rated value 54 A	● at DC	8,5g / 5 ms, 4,2g / 10 ms		
Mechanical service life (ewitching cycles) 10 000 000 • of contactor typical 10 000 000 • of the contactor with added electronics- compatible auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 Installation altitude at height above sea level • naximum 2 000 m Ambient temperature • during operation - 40 +70 °C • during storage - 55 +80 °C Mumber of No contacts for main current circuit 3 Number of No contacts for main contacts 3 Number of No contacts for main contacts 3 Operating voltage - • at AC-1 at 400 V - - up to 690 V at ambient temperature 40 °C rated value 160 A - up to 690 V at ambient temperature 60 °C rated value 140 A - up to 690 V rated value 115 A - at 400 V rated value 115 A - at 400 V rated value 115 A - at 600 V rated value 115 A <t< td=""><td>Shock resistance with sine pulse</td><td></td></t<>	Shock resistance with sine pulse			
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• 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 Ambient conditions Installation altitude at height above see level Installation altitude at height above see level • maximum 2 000 m Ambient temperature - 40 +70 °C • during operation - 40 +70 °C • during storage - 55 +80 °C Mumber of poles for main current circuit 3 Number of NC contacts for main contacts 0 Operating voltage - 3 • at AC-3 rated value maximum 1000 V Operating current - 40 °C • at AC-1 at 400 V - 40 °C • at AC-1 at 400 V - 40 °C • at AC-1 at 400 V - 40 °C • at AC-1 at 400 V - 40 °C • at AC-3 rated value 160 A • at AC-3 rated value 15 A • at AC-3 rated value 15 A • at A00 V rated value 15 A • at A00 V rated value 15 A • at 60 °C minimum permissible 50 mm² • at 60 °C minimum permissible 70 mm² </td <td>Mechanical service life (switching cycles)</td> <td></td>	Mechanical service life (switching cycles)			
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- up to 690 V at ambient temperature 40 °C rated value160 A- up to 690 V at ambient temperature 60 °C rated value140 A- up to 690 V at ambient temperature 60 °C140 A- at AC-2 at 400 V rated value115 A- at 400 V rated value115 A- at 500 V rated value115 A- at 690 V rated value50 mm²- at 60 °C minimum permissible50 mm²• at 40 °C minimum permissible50 mm²• at 400 V rated value54 A	— at ambient temperature 40 °C rated value	160 A		
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- at 400 V rated value115 A- at 500 V rated value115 A- at 690 V rated value115 AConnectable conductor cross-section in main circuit at AC-1-• at 60 °C minimum permissible50 mm²• at 40 °C minimum permissible70 mm²• at 40 °C minimum permissible54 A	• at AC-2 at 400 V rated value	115 A		
- at 500 V rated value115 A- at 690 V rated value115 AConnectable conductor cross-section in main circuit at AC-1115 A• at 60 °C minimum permissible50 mm²• at 40 °C minimum permissible70 mm²• at 40 °C minimum permissible50 A• at 40 °C minimum permissible50 mm²• at 40 °C minimum permissible50 mm²• at 40 °C minimum permissible50 mm²	• at AC-3			
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at AC-1-• at 60 °C minimum permissible50 mm²• at 40 °C minimum permissible70 mm²Operating current for approx. 200000 operating cycles at AC-4-• at 400 V rated value54 A	— at 690 V rated value	115 A		
• at 60 °C minimum permissible50 mm²• at 40 °C minimum permissible70 mm²Operating current for approx. 200000 operating cycles at AC-454 A• at 400 V rated value54 A	Connectable conductor cross-section in main circuit			
• at 40 °C minimum permissible 70 mm ² Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 54 A	at AC-1			
Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 54 A	• at 60 °C minimum permissible	50 mm²		
• at 400 V rated value 54 A	-	70 mm ²		
• at 400 V rated value 54 A				
	-	54 A		
at 690 V rated value 48 A	• at 690 V rated value	48 A		

Operating current				
 at 1 current path at DC-1 				
— at 24 V rated value	160 A			
— at 110 V rated value	18 A			
— at 220 V rated value	3.4 A			
— at 440 V rated value	0.8 A			
— at 600 V rated value	0.5 A			
 with 2 current paths in series at DC-1 				
— at 24 V rated value	160 A			
— at 110 V rated value	160 A			
— at 220 V rated value	20 A			
— at 440 V rated value	3.2 A			
— at 600 V rated value	1.6 A			
 with 3 current paths in series at DC-1 				
— at 24 V rated value	160 A			
— at 110 V rated value	160 A			
— at 220 V rated value	160 A			
— at 440 V rated value	11.5 A			
— at 600 V rated value	4 A			
Operating current				
• at 1 current path at DC-3 at DC-5				
— at 24 V rated value	160 A			
— at 110 V rated value	2.5 A			
— at 220 V rated value	0.6 A			
— at 440 V rated value	0.17 A			
— at 600 V rated value	0.12 A			
 with 2 current paths in series at DC-3 at DC-5 				
— at 24 V rated value	160 A			
— at 110 V rated value	160 A			
— at 220 V rated value	2.5 A			
— at 440 V rated value	0.65 A			
— at 600 V rated value	0.37 A			
 with 3 current paths in series at DC-3 at DC-5 				
— at 24 V rated value	160 A			
— at 110 V rated value	160 A			
— at 220 V rated value	160 A			
— at 440 V rated value	1.4 A			
— at 600 V rated value	0.75 A			
Operating power				
• at AC-1				
— at 230 V at 60 °C rated value	53 kW			

— at 400 V rated value	92 kW			
— at 400 V at 60 °C rated value	92 kW			
— at 690 V rated value	159 kW			
— at 690 V at 60 °C rated value	159 kW			
• at AC-2 at 400 V rated value	55 kW			
• at AC-3				
— at 230 V rated value	37 kW			
— at 400 V rated value	55 kW			
— at 500 V rated value	75 kW			
— at 690 V rated value	110 kW			
Operating power for approx. 200000 operating cycles at AC-4				
• at 400 V rated value	29 kW			
• at 690 V rated value	48 kW			
Thermal short-time current limited to 10 s	1.1 kA			
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	7 W			
No-load switching frequency				
• at DC	1 000 1/h			
Operating frequency				
• at AC-1 maximum	800 1/h			
• at AC-2 maximum	400 1/h			
• at AC-3 maximum	1 000 1/h			
• at AC-4 maximum	130 1/h			
Operating frequency				
● at DC-1 maximum	400 1/s			
• at DC-3 maximum	500 1/s			
● at DC-5 maximum	500 1/s			
Ratings for railway applications				
Thermal current (Ith) up to 690 V				
• up to 40 °C according to IEC 60077 rated value	160 A			
• up to 70 °C according to IEC 60077 rated value	120 A			
Connectable conductor cross-section in main circuit	70 mm²			
 up to 40 °C according to IEC 60077 rated value minimum permissible 	70 mm ²			
 up to 70 °C according to IEC 60077 rated value minimum permissible 	70 mm ²			
Control circuit/ Control				
Type of voltage of the control supply voltage	DC			
Control supply voltage at DC				
• rated value	72 V			

Operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.7
• Full-scale value	1.25
Design of the surge suppressor	with varistor
Closing power of magnet coil at DC	320 W
Holding power of magnet coil at DC	2.8 W
Closing delay	
• at DC	35 75 ms
Opening delay	
• at DC	80 90 ms
Arcing time	10 15 ms
Control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)

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-12 maximum	10 A
Operating current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
Operating current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	1 A
• at 600 V rated value	0.15 A
Operating current at DC-13	
• at 24 V rated value	6 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)

UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	124 A
• at 600 V rated value	125 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 230 V rated value	25 hp
 for three-phase AC motor 	
— at 200/208 V rated value	40 hp
— at 220/230 V rated value	50 hp
— at 460/480 V rated value	100 hp
— at 575/600 V rated value	125 hp
Contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
Design of the fuse link	
 for short-circuit protection of the main circuit 	
 with type of coordination 1 required 	Fuse gG: 355 A
— with type of assignment 2 required	Fuse gG: 315 A
 for short-circuit protection of the auxiliary switch 	fuse gG: 10 A
required	
Installation/mounting/dimensions	
Installation/ mounting/ dimensions	with vertical mounting surface +/-90° rotatable, with vertical
Mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
-	-
Mounting position	mounting surface +/- 22.5° tiltable to the front and back
Mounting position Mounting type	mounting surface +/- 22.5° tiltable to the front and back screw fixing
Mounting position Mounting type • Side-by-side mounting	mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes
Mounting position Mounting type • Side-by-side mounting Height	mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm
Mounting position Mounting type • Side-by-side mounting Height Width	mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm
Mounting position Mounting type • Side-by-side mounting Height Width Depth	mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm
Mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing	mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm
Mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting	mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 0 mm
Mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting — forwards	mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 0 mm 10 mm
Mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting — forwards — Backwards	mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 0 mm 10 mm
Mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards	mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 0 mm 10 mm
Mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards — downwards	mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 0 mm 10 mm
Mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards — downwards — at the side	mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 0 mm 10 mm
Mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts	mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 0 mm 10 mm 10 mm 10 mm
Mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards — at the side • for grounded parts — forwards	mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 0 mm 10 mm 10 mm 10 mm
Mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards — at the side • for grounded parts — forwards — Backwards	mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 0 mm 10 mm 10 mm 20 mm 0 mm
Mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts — forwards — Backwards — upwards — upwards — low ards — upwards — upwards	mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 0 mm 10 mm 10 mm 20 mm 10 mm

• for live parts					
— forwards	10 mm				
— Backwards	0 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	10 mm				
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-sections					
 for main contacts 					
— stranded	2x (25 120 mm²)				
— single or multi-stranded	max. 1x 50, 1x 70 mm ²				
 at AWG conductors for main contacts 	2x 1/0				
Type of connectable conductor cross-sections					
 for auxiliary contacts 					
— single or multi-stranded	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	0.75 2.5 mm²)			
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14	4), 1x 12			
Safety related data					
Product function					
• Mirror contact acc. to IEC 60947-4-1	Yes				
 positively driven operation acc. to IEC 60947-5- 	No				
1					
Certificates/approvals					
General Product Approval		Functional	Declaration of		

General Produ	ict Approval		Functional Safety/Safety of Machinery	Declaration of Conformity
	(SA)	EHC	Type Examination Certificate	EG-Konf.

Test	Marine /	other		Railway	
Certificates	Shipping				
Special Test Certificate	DNVGLCOM/AF	<u>Confirmation</u>	Miscellaneous	Vibration and Shock	Confirmation

Further information

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

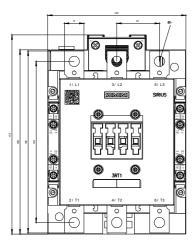
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1054-6XJ46-0LA2

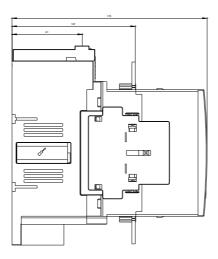
Cax online generator

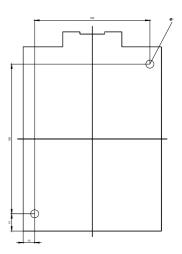
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-6XJ46-0LA2

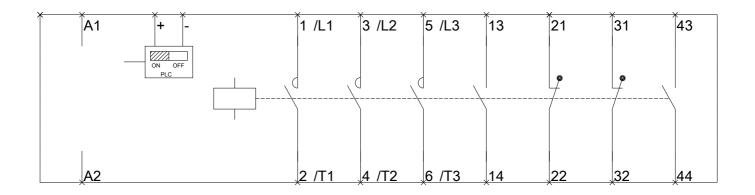
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6XJ46-0LA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1054-6XJ46-0LA2&lang=en









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