SIEMENS

Data sheet

3RT1054-1XJ46-0LA2

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 with box terminals coil terminals: screw type screw terminal



Figure similar

Des des été une d'accesse	
Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT1
General technical data	
Size of contactor	S6
Product extension	
Auxiliary switch	Yes
Surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
 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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- 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
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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
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• 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	7 W	
the operating current per conductor		
No-load switching frequency		
• at DC	1 000 1/h	
Operating frequency	200 <i>t i</i>	
• 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		
 up to 40 °C according to IEC 60077 rated value minimum permissible 	70 mm²	
 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	max. 1x 50, 1x 70 mm²
— single or multi-stranded	max. 1x 50, 1x 70 mm²
 — finely stranded with core end processing 	max. 1x 50, 1x 70 mm²
 finely stranded without core end processing 	max. 1x 50, 1x 70 mm²
 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 (0.75 2.5 mm²)
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12
Safety related data	
Product function	
 Mirror contact acc. to IEC 60947-4-1 	Yes
 positively driven operation acc. to IEC 60947-5- 1 	No
Certificates/approvals	

Certificates/approvals

General Product Approval			Functional Safety/Safety of Machinery	Declaration of Conformity	
	CSA		EHC	Type Examination Certificate	EG-Konf.

Test Certificates	Marine / Shipping	other		Railway	
Special Test Certificate	ANT GL	Confirmation	Miscellaneous	Vibration and Shock	Confirmation

Further information

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

Industry Mall (Online ordering system)

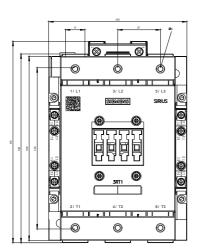
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1054-1XJ46-0LA2

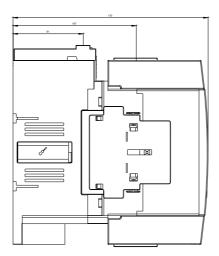
Cax online generator

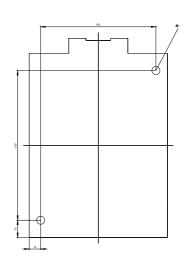
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-1XJ46-0LA2

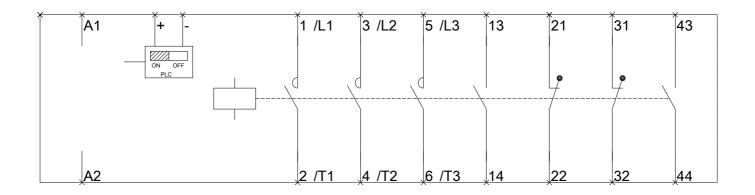
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-1XJ46-0LA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1054-1XJ46-0LA2&lang=en









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