SIEMENS

Data sheet 3RT1054-1AP36



CONTACTOR, 55KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 220...240V AUXIL. CONTACTS 2NO+2NC 3-POLE, SIZE S6 WITH BOX TERMINALS CONVENTIONAL OPERATING MECHAN. SCREW TERMINAL

Figure similar

SIRIUS	
power contactor	
\$6	
1 000 V	
3	
8 kV	
690 V	
IP00	
IP00	
8,5g / 5 ms, 4,2g / 10 ms	

— at DC	8,5g / 5 ms, 4,2g / 10 ms	
• with sine pulse		
— at AC	13,4g / 5 ms, 6,5g / 10 ms	
— at DC	13,4g / 5 ms, 6,5g / 10 ms	
Mechanical service life (switching cycles)		
of 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	
Ambient conditions		

2 000 m

maximum	
Ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
Number of poles for main current circuit	3
Number of NO contacts for main contacts	3
Number of NC contacts for main contacts	0
Operating current	
● at AC-1 at 400 V	
 at ambient temperature 40 °C rated value 	160 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	160 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	140 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	80 A
— up to 1000 V at ambient temperature 60 °C rated value	80 A
• at AC-3	
— at 400 V rated value	115 A
— at 690 V rated value	115 A
— at 1000 V rated value	53 A
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	50 mm²
• at 40 °C minimum permissible	70 mm²
Operating current for approx. 200000 operating cycles at AC-4	

Installation altitude at height above sea level

• at 400 V rated value	54 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
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	
• 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
 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	53 kW
— at 400 V rated value	92 kW
— at 690 V rated value	159 kW
— at 690 V at 60 °C rated value	159 kW
— at 1000 V at 60 °C rated value	131 W
• at AC-2 at 400 V rated value	84 kW
• at AC-3	
— at 230 V rated value	37 kW
— at 400 V rated value	64 kW
— at 500 V rated value	81 kW
— at 690 V rated value	113 kW
— at 1000 V rated value	75 W
Operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	29 kW
	48 kW
 at 690 V rated value 	10 KVV

7 W
2 000 1/h
2 000 1/h
800 1/h
400 1/h
1 000 1/h
130 1/h

Control circuit/ Control		
Type of voltage of the control supply voltage	AC/DC	
Control supply voltage at AC		
● at 50 Hz rated value	220 240 V	
• at 60 Hz rated value	220 240 V	
Control supply voltage at DC		
• rated value	220 240 V	
Control supply voltage frequency 1 rated value	50 Hz	
Control supply voltage frequency 2 rated value	60 Hz	
Operating range factor control supply voltage rated value of magnet coil at AC		
● at 50 Hz	0.8 1.1	
● at 60 Hz	0.8 1.1	
Operating range factor control supply voltage rated value of magnet coil at DC	0.8 1.1	
Design of the surge suppressor	with varistor	
Apparent pick-up power of magnet coil at AC	300 V·A	
Inductive power factor with closing power of the coil	0.9	
Apparent holding power of magnet coil at AC	5.8 V·A	
Inductive power factor with the holding power of the coil	0.8	
Closing power of magnet coil at DC	360 W	
Holding power of magnet coil at DC	5.2 W	
Closing delay		
• at AC	20 95 ms	
• at DC	20 95 ms	
Opening delay		
• at AC	40 60 ms	
• at DC	40 60 ms	
Arcing time	10 15 ms	

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
Operating current at DC-12	
• 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	
• at 24 V rated value	10 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 220 V rated value	0.3 A
UL/CSA ratings	
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 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
	470

Installation/ mounting/ dimensions		
Mounting type	screw fixing	
Side-by-side mounting	Yes	
Height	172 mm	
Width	120 mm	
Depth	170 mm	
Required spacing		
for grounded parts		
— 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

- finely stranded with core end processing

finely stranded without core end processing

• at AWG conductors for main contacts

max. 2x 70 mm²

max. 1x 50, 1x 70 mm²

max. 1x 50, 1x 70 mm²

2x 1/0

Type of connectable conductor cross-sections

• for auxiliary contacts

- solid

- finely stranded with core end processing

• at AWG conductors for auxiliary contacts

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14), 1x 12

Certificates/approvals

General Product Approval

Declaration of Conformity

Test Certificates

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Shipping Approval

other

spezielle Prüfbescheinigunge

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Bestätigungen

other

Umweltbestätigung

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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=3RT1054-1AP36

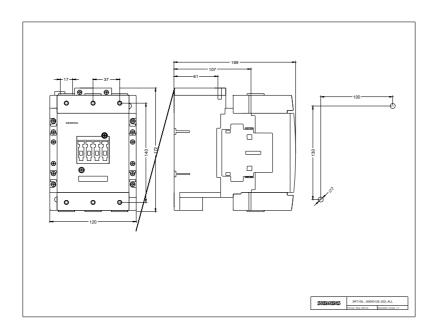
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-1AP36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-1AP36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1054-1AP36&lang=en





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