SIEMENS

Data sheet 3RT1035-1AP60



Power contactor, AC-3 40 A, 18.5 kW / 400 V 220 V AC, 50 Hz / 240 V, 60 Hz, 3-pole, Size S2, Screw terminal !!! Phased-out product !!! Successor is SIRIUS 3RT2 Preferred successor type is >>3RT2028-1AP60<<

Figure similar

Product brand name	SIRIUS
Product designation	power contactor
General technical data	
Size of contactor	S2
Insulation voltage	
• rated value	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 	400 V
60947-1	
Protection class IP	
• on the front	IP20
of the terminal	IP00
Shock resistance at rectangular impulse	
● at AC	10g / 5 ms, 5g / 10 ms
Shock resistance with sine pulse	

15g / 5 ms, 8g / 10 ms
10 000 000
5 000 000
10 000 000
Q
2 000 m
-25 +60 °C
-55 +80 °C
3
3
0
60 A
60 A
55 A
40 A
24 A
35 A
16 mm²
16 mm²
18.5 A
12.6 A
55 A

 with 2 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	25 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
Operating current	
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 110 V rated value	2.5 A
• with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	55 A
— at 110 V rated value	25 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
Operating power	
• at AC-1	
— at 230 V at 60 °C rated value	22 kW
— at 400 V rated value	38 kW
— at 690 V rated value	66 kW
— at 690 V at 60 °C rated value	66 kW
• at AC-2 at 400 V rated value	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
Operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	9.5 kW
● at 690 V rated value	11.4 kW
Thermal short-time current limited to 10 s	400 A
Power loss [W] at AC-3 at 400 V for rated value of	2.6 W
the operating current per conductor	
No-load switching frequency	5 000 4/h
• at AC	5 000 1/h
Operating frequency	1 200 1/b
• at AC-1 maximum	1 200 1/h
• at AC-2 maximum	600 1/h
• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	300 1/h

T	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
at 50 Hz rated value	220 V
• at 60 Hz rated value	240 V
Control supply voltage frequency	
• 1 rated value	50 Hz
● 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
Apparent pick-up power of magnet coil at AC	166 V·A
Inductive power factor with closing power of the coil	0.71
Apparent holding power of magnet coil at AC	12.6 V·A
Inductive power factor with the holding power of the	0.37
coil Closing delay	
• at AC	10 24 ms
	10 24 1115
Opening delay	7 20 ms
• at AC	10 15 ms
Arcing time	10 15 IIIS
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	
e instantanceus contest	
instantaneous contact	0
Number of NO contacts for auxiliary contacts	0
	0
Number of NO contacts for auxiliary contacts	
Number of NO contacts for auxiliary contacts • instantaneous contact	0 10 A
Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum	0
Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15	0 10 A
Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value	0 10 A 6 A 3 A
Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value	0 10 A 6 A
Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value Operating current at DC-12	0 10 A 6 A 3 A
Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value Operating current at DC-12 • at 60 V rated value	0 10 A 6 A 3 A
Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value Operating current at DC-12 • at 60 V rated value • at 110 V rated value	0 10 A 6 A 3 A
Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value Operating current at DC-12 • at 60 V rated value • at 110 V rated value • at 220 V rated value	0 10 A 6 A 3 A
Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value Operating current at DC-12 • at 60 V rated value • at 110 V rated value • at 220 V rated value Operating current at DC-13	0 10 A 6 A 3 A 6 A 3 A 1 A
Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value Operating current at DC-12 • at 60 V rated value • at 110 V rated value • at 220 V rated value Operating current at DC-13 • at 24 V rated value	0 10 A 6 A 3 A 6 A 3 A 1 A
Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value Operating current at DC-12 • at 60 V rated value • at 110 V rated value • at 220 V rated value Operating current at DC-13 • at 24 V rated value • at 60 V rated value • at 60 V rated value	0 10 A 6 A 3 A 6 A 3 A 1 A

UL/CSA ratings	
Contact rating of auxiliary contacts according to UL	A600 / Q600
Chart circuit protection	
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: 125 A
— with type of assignment 2 required	fuse gL/gG: 63 A
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A
Installation/ mounting/ dimensions	

Installation/ mounting/ dimensions		
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022	
Side-by-side mounting	Yes	
Height	112 mm	
Width	55 mm	
Depth	115 mm	
Required spacing		
for grounded parts		
— at the side	6 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	
— solid	2x (0.75 16 mm²)
— stranded	2x (0.75 25 mm²)
— single or multi-stranded	2x (0,75 16 mm²)
 finely stranded with core end processing 	2x (0.75 16 mm²)
 finely stranded without core end 	2x (0.75 16 mm²)
processing	
 at AWG conductors for main contacts 	2x (18 2)
Type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	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

General Product Approval

Functional Safety/Safety of Machinery Declaration of Conformity









Type Examination
Certificate



Test Certificates

Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









Marine / Ship-	other
ping	



Confirmation

Miscellaneous

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=3RT1035-1AP60

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT1035-1AP60}\\$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1035-1AP60

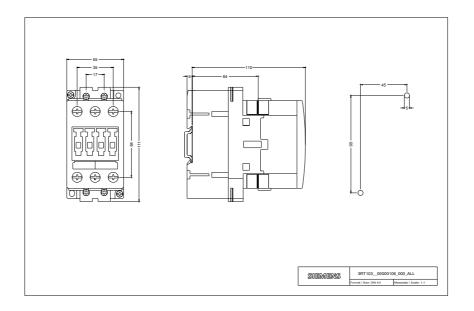
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1035-1AP60&lang=en

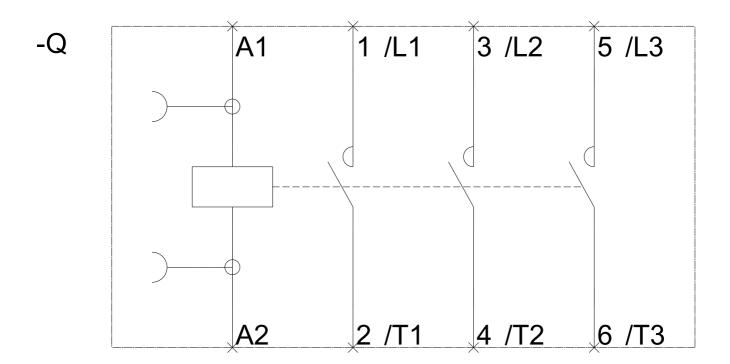
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1035-1AP60/char

Further characteristics (e.g. electrical endurance, switching frequency)

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT1035-1AP60\&objecttype=14\&gridview=view1}\\$





last modified: 07/04/2018