SIEMENS

Data sheet

3RT1036-1AV00



Power contactor, AC-3 50 A, 22 kW / 400 V 400 V AC, 50 Hz, 3-pole, Size S2, Screw terminal !!! Phased-out product !!! Successor is SIRIUS 3RT2 Preferred successor type is >>3RT2036-1AV00<<

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 according to EN 60947-1	400 V
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	
• at AC	15g / 5 ms, 8g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
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 NO contacts for main contacts	3
number of NC contacts for main contacts	0
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	60 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	60 A
— up to 690 V at ambient temperature 60 °C rated value	55 A

• at AC-3	
— at 400 V rated value	50 A
— at 690 V rated value	24 A
 at AC-4 at 400 V rated value 	41 A
connectable conductor cross-section in main circuit at AC-1	
 at 60 °C minimum permissible 	16 mm ²
• at 40 °C minimum permissible	16 mm ²
operational current for approx. 200000 operating cycles at AC-4	
 at 400 V rated value 	24 A
at 690 V rated value	12.6 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 	22 kW
• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles	
at AC-4	
 at 400 V rated value 	12.6 kW
 at 690 V rated value 	11.4 kW
thermal short-time current limited to 10 s	400 A
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
 at AC-2 maximum 	400 1/h
● at AC-3 maximum	800 1/h
 at AC-4 maximum 	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	400 V
control supply voltage frequency	
• 1 rated value	50 Hz
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	145 VA
inductive power factor with closing power of the coil	0.79
apparent holding power of magnet coil at AC	12.5 VA
inductive power factor with the holding power of the coil	0.36
closing delay	
• at AC	10 24 ms
opening delay	
• at AC	7 20 ms
arcing time	10 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous contact	0
operational current at AC-12 maximum	10 A

6 A 3 A 6 A 3 A 1 A 10 A 2 A 1 A 0.3 A 1 faulty switching per 100 million (17 V, 1 mA) A600 / Q600 fuse gL/gG: 160 A fuse gL/gG: 80 A fuse gL/gG: 80 A fuse gL/gG: 10 A Screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 112 mm 55 mm 115 mm 6 mm			
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55 mm 115 mm 6 mm screw-type terminals			
115 mm 6 mm screw-type terminals			
6 mm screw-type terminals			
screw-type terminals			
screw-type terminals			
2x (0.75 16 mm²)			
2x (0.75 25 mm²)			
2x (0.75 16 mm²)			
2x (0.75 16 mm²)			
2x (0.75 16 mm ²)			
2x (18 2)			
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)			
2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
2x (20 16), 2x (18 14), 1x 12			
EMC			
ENIC			
UL RCM			
UL BILD RCM			
ates Marine / Shipping			

UK CA	CE EG-Konf.	<u>Miscellaneous</u>	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS
Marine / Shipping		other			
RINA	DINV-GL.	<u>Confirmation</u>	<u>Miscellaneous</u>	<u>Miscellaneous</u>	<u>Confirmation</u>
Railway Special Test Certific- ate					
Further information					

https://www.siemens.com/ic10 Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1036-1AV00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1036-1AV00

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

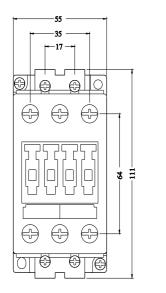
https://support.industry.siemens.com/cs/ww/en/ps/3RT1036-1AV00

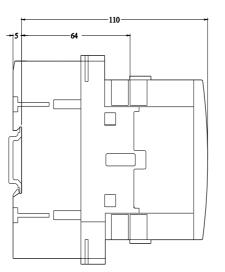
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1036-1AV00&lang=en

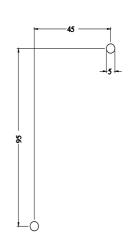
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1036-1AV00/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1036-1AV00&objecttype=14&gridview=view1







last modified:

12/1/2021 🖸