SIEMENS

Data sheet

3RT5035-1AG20



Contactor AC 110 V 50/60 HZ AC3 18,5 kW 400 V 3 pole, mod. S2 screw terminal

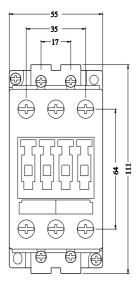
SIRIUS
Power contactor
3RT5
S2
Yes
2.6 W
5.25 W
quadratic
690 V
3
6 kV
400 V
10g / 5 ms, 5g / 10 ms
15g / 5 ms, 8g / 10 ms
10 000 000
10 000 000
03/01/2017
Lead - 7439-92-1
2 000 m
-25 +60 °C
-55 +80 °C
3
3
0
690 V
60 A
55 A

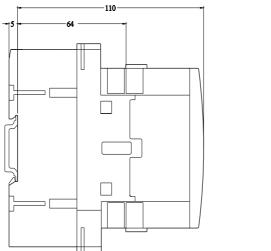
— at 400 V rated value	40 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	40 A
— at 690 V rated value	24 A
connectable conductor cross-section in main circuit at AC-	
1	
 at 60 °C minimum permissible 	16 mm ²
at 40 °C minimum permissible	16 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	18.5 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 at 60 °C rated value	38 kW
— at 690 V at 60 °C rated value	66 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 690 V rated value	22 kW
● at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	
 at 400 V rated value 	9.5 kW
at 690 V rated value	11.4 kW
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 200 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 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	110 V
at 50 Hz rated value at 60 Hz rated value	110 V
operating range factor control supply voltage rated value of	
magnet coil at AC	0.8 1.1
• at 50 Hz	0.8 1.1 0.85 1.1
• at 60 Hz	0.00 1.1
apparent pick-up power of magnet coil at AC	170 \/A
• at 50 Hz	170 VA
• at 60 Hz	170 VA
inductive power factor with closing power of the coil	0.76
• at 50 Hz	0.76
• at 60 Hz	0.76
apparent holding power of magnet coil at AC	
• at 50 Hz	15 VA
• at 60 Hz	15 VA
inductive power factor with the holding power of the coil	0.05
• at 50 Hz	0.35
• at 60 Hz	0.35
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	0
number of NO contacts for auxiliary contacts instantaneous	0

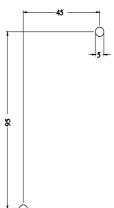
Marine / Shipping other	Environment
Marina / Shinning other	Environment
EG-Konf.	
C C Confirmatio	
General Product Approval	EMV
Approvals Certificates	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
protection class IP on the front according to IEC 60529	IP20
Electrical Safety	
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
for auxiliary contacts	0. (0.5 4.5 mm ²) 0. (0.75 0.5 mm ²)
type of connectable conductor cross-sections	
finely stranded without core end processing	2x (0.75 16 mm²)
 finely stranded with core end processing finely stranded without core and processing 	2x (0.75 16 mm ²)
 solid or stranded finally stranded with core and processing 	2x (0.75 16 mm ²)
type of connectable conductor cross-sections for main contacts	$2 \times (0.75 - 16 \text{ mm}^2)$
for auxiliary and control circuit	screw-type terminals
for main current circuit	screw-type terminals
type of electrical connection	corow type terminale
Connections/ Terminals	
depth Connections/Terminals	
	55 mm 115 mm
height width	112 mm 55 mm
side-by-side mounting	Yes 112 mm
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 Yes
factoning mothod	backward by +/- 22.5° on vertical mounting surface
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by $\pm/22.5^{\circ}$ on vertical mounting surface.
Installation/ mounting/ dimensions	
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A
— with type of assignment 2 required	fuse gL/gG: 63 A
— with type of coordination 1 required	fuse gL/gG: 125 A
for short-circuit protection of the main circuit	
design of the fuse link	
Short-circuit protection	
460/480 V rated value	
yielded mechanical performance [hp] for 3-phase AC motor at	30 hp
UL/CSA ratings	
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
at 220 V rated value	0.3 A
at 110 V rated value	1A
at 24 V rated value	6 A
operational current at DC-13	
 at 110 V rated value at 220 V rated value 	3 A 1 A
operational current at DC-12	2.4
at 400 V rated value	3 A
 at 230 V rated value 	6 A
operational current at AC-15	
operational current at AC-12 maximum	10 A
contact	

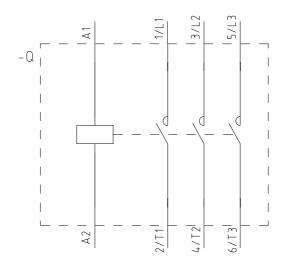
Further information

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/products?pnid=16027&lc=en-CN









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