## SIEMENS

## Data sheet

## 3RT5035-1AG20

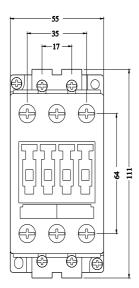


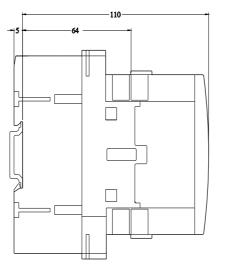
Contactor AC 110 V 50/60 HZ AC3 18,5 kW 400 V 3 pole, mod. S2 screw terminal

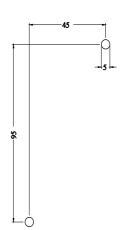
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT5
General technical data	
size of contactor	S2
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.6 W
<ul> <li>without load current share typical</li> </ul>	5.25 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
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 (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	03/01/2017
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
operating voltage	
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	60 A
— at ambient temperature 60 °C rated value	55 A
• at AC-3	
— at 400 V rated value	40 A

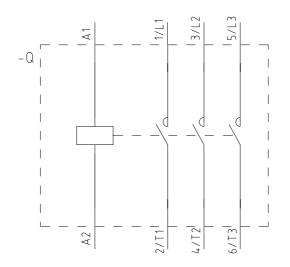
24 A
40 A
24 A
16 mm <sup>2</sup>
16 mm²
18.5 A
12.6 A
20 MM
22 kW
38 kW 66 kW
11 kW
18.5 kW
22 kW
18.5 kW
22 kW
9.5 kW
11.4 kW
5 000 1/h
1 200 1/h
1 000 1/h
4 000 4 11-
1 000 1/h
1 000 1/h 300 1/h
300 1/h
300 1/h AC
300 1/h AC 110 V
300 1/h AC
300 1/h AC 110 V
300 1/h AC 110 V
300 1/h AC 110 V 110 V
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operational current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
operational current at DC-12	
<ul> <li>at 110 V rated value</li> </ul>	3 A
• at 220 V rated value	1 A
operational current at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	1 A
• at 220 V rated value	0.3 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
yielded mechanical performance [hp] for 3-phase AC motor at 460/480 V rated value	30 hp
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
- with type of coordination 1 required	fuse gL/gG: 125 A
- with type of assignment 2 required	fuse gL/gG: 63 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 10 A
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
side-by-side mounting	Yes
height	112 mm
width	55 mm
depth	115 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
type of connectable conductor cross-sections for main contacts	
<ul> <li>solid or stranded</li> </ul>	2x (0.75 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.75 16 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.75 16 mm²)
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
- finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 1x 12
Safety related data	
product function mirror contact according to IEC 60947-4-1	Yes
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals	
General Product Approval	EMC
Confirmation CCC	
Declaration of Con- formity other	
Confirmation Confirmation EG-Konf.	<u>n</u>
Further information	









last modified:

7/14/2023 🖸

7/27/2023