SIEMENS

Data sheet 3RT5035-1AN20



Contactor AC 220V 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	
 at AC in hot operating state per pole 	2.6 W
 without load current share typical 	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)	
 of contactor typical 	10 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
Substance Prohibitance (Date)	03/01/2017
SVHC substance name	Lead - 7439-92-1
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	
at AC-3e rated value maximum	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	

	10.1
— 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-	
at 60 °C minimum permissible	16 mm²
at 40 °C minimum permissible	16 mm²
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-	
4	0.51114
• at 400 V rated value	9.5 kW
at 690 V rated value	11.4 kW
no-load switching frequency	F 000 4/1-
• at AC	5 000 1/h
operating frequency • at AC-1 maximum	1 200 1/b
	1 200 1/h
at AC-3 maximumat AC-3e maximum	1 000 1/h
at AC-3e maximum at AC-4 maximum	1 000 1/h 300 1/h
Control circuit/ Control	300 1/11
	AC
type of voltage of the control supply voltage control supply voltage at AC	AC
at 50 Hz rated value	220 V
• at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of	220 V
magnet coil at AC	20.44
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	470.1/4
• 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 \/A
• at 60 Hz	15 VA 15 VA
	IV VA
inductive power factor with the holding power of the coil • at 50 Hz	0.35
at 50 Hz at 60 Hz	0.35
	0.00
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous	2
contact	0
contact number of NO contacts for auxiliary contacts instantaneous	0

contact	
operational current at AC-12 maximum	10 A
	10 A
operational current at AC-15 • at 230 V rated value	C /\
	6 A 3 A
at 400 V rated value	3 A
operational current at DC-12	2.4
at 110 V rated value	3 A
at 220 V rated value	1 A
operational current at DC-13	C A
at 24 V rated value at 440 V rated value	6 A
at 110 V rated value	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	001
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	
 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	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
g p	backward by +/- 22.5° on vertical mounting surface
fastening method	
	backward by +/- 22.5° on vertical mounting surface
fastening method	backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
fastening method ■ side-by-side mounting	backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 Yes
fastening method • side-by-side mounting height	backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 Yes 112 mm
fastening method • side-by-side mounting height width	backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 Yes 112 mm 55 mm
fastening method • side-by-side mounting height width depth	backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 Yes 112 mm 55 mm
fastening method • side-by-side mounting height width depth Connections/ Terminals	backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 Yes 112 mm 55 mm
fastening method • side-by-side mounting height width depth Connections/ Terminals type of electrical connection	backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 Yes 112 mm 55 mm 115 mm
fastening method	backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 Yes 112 mm 55 mm 115 mm screw-type terminals
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Confirmation







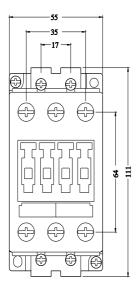
Marine / Shipping other Environment

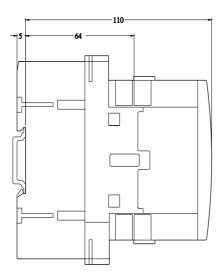
CCS (China Classification Society)

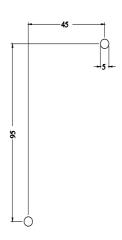
Confirmation

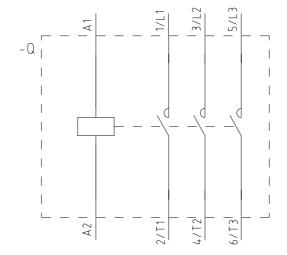
Confirmation

Environmental Confirmations









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