SIEMENS

Data sheet 3RT5035-1BB40



Contactor DC 24 V 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	13.3 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 DC	10g / 5 ms, 5g / 10 ms
shock resistance with sine pulse	
• at DC	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	

at 400 V rated value	40 A
— at 400 V rated value	24 A
— at 690 V rated value	24 A
• at AC-3e	40.4
— 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 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	
at 400 V rated value	9.5 kW
at 690 V rated value	11.4 kW
no-load switching frequency	
• at DC	1 500 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	DC
control supply voltage at DC rated value	
•	24 V
closing power of magnet coil at DC	13.3 W
holding power of magnet coil at DC	13.3 W
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	0
number of NO contacts for auxiliary contacts instantaneous contact	0
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
operational current at DC-12	
• at 110 V rated value	3 A
at 220 V rated value	1 A
operational current at DC-13	
• at 24 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	
yielded mechanical performance [hp] for 3-phase AC motor at	30 hp

460/480 V rated value			
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		
nstallation/ mounting/ dimensions			
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward an 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	130 mm		
Connections/ Terminals			
type of electrical connection			
for main current circuit	screw-type terminals		
for auxiliary and control circuit	screw-type terminals		
type of connectable conductor cross-sections for main contacts			
 solid or stranded 	2x (0.75 16 mm²)		
 finely stranded with core end processing 	2x (0.75 16 mm²)		
 finely stranded without core end processing 	2x (0.75 16 mm²)		
type of connectable conductor cross-sections			
 for auxiliary contacts 			
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12		
Electrical Safety			
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		
Approvals Certificates			
General Product Approval		EMV	

Confirmation











Marine / Shipping **Environment**

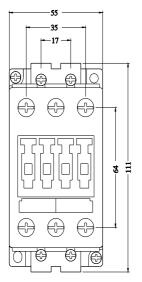
CCS (China Classification Society)

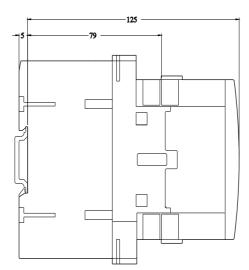
Confirmation

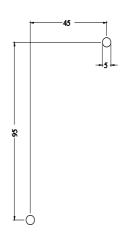
Environmental Con-firmations

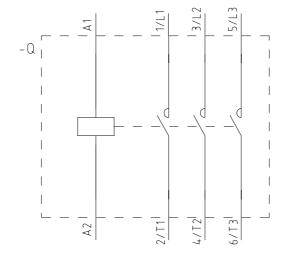
Further information

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









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