SIEMENS

Data sheet 3RT5034-1AG20



Contactor AC 110 V 50/60 HZ AC3 15 kW 400 V 3-pole, size 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 	1.8 W
without load current share typical	4.63 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
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 	50 A
 — at ambient temperature 60 °C rated value 	45 A
• at AC-3	
— at 400 V rated value	32 A

— at 690 V rated value	20 A
• at AC-3e	
— at 400 V rated value	32 A
— at 690 V rated value	20 A
connectable conductor cross-section in main circuit at AC-	
	10 mm²
at 60 °C minimum permissible at 40 °C minimum permissible	
at 40 °C minimum permissible	16 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	15.6 A
• at 690 V rated value	11 A
operating power	
• at AC-1	
— at 230 V at 60 °C rated value	18 kW
— at 400 V at 60 °C rated value	31 kW
— at 690 V at 60 °C rated value	54 kW
• at AC-3	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
— at 400 V rated value	15 kW
— at 690 V rated value	18.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
 at 400 V rated value 	8.2 kW
at 690 V rated value	10 kW
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
-p amig moduonoj	
• at AC-1 maximum	1 200 1/h
	1 200 1/h 1 000 1/h
• at AC-1 maximum	
at AC-1 maximumat AC-3 maximum	1 000 1/h
 at AC-1 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control	1 000 1/h 1 000 1/h
 at AC-1 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum 	1 000 1/h 1 000 1/h
 at AC-1 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control	1 000 1/h 1 000 1/h 250 1/h
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at AC-1 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value	1 000 1/h 1 000 1/h 250 1/h AC
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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			
• 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 460/480 V rated value	25 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 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		
 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		
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

Confirmation



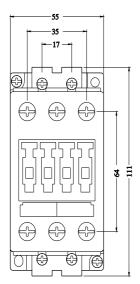


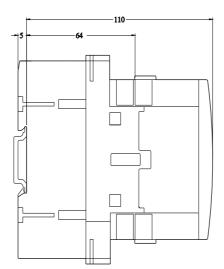


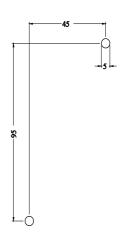
Declaration of Conformity

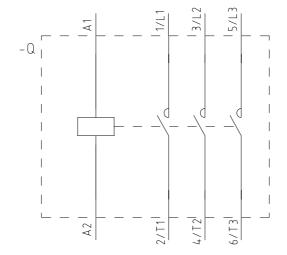
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Confirmation









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