SIEMENS

Data sheet

3RT2035-3KB40



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 24 V DC, 0.8-1.2* Us, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2, suitable for PLC outputs

product brand name	SIRIUS
product designation	Coupling contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
 function module for communication 	No
 auxiliary switch 	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	6.6 W
 at AC in hot operating state per pole 	2.2 W
 without load current share typical 	1 W
insulation voltage	
of main circuit with degree of pollution 3 rated value	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit 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	7.7g / 5 ms, 4.5g / 10 ms
shock resistance with sine pulse	
• at DC	12g / 5 ms, 7g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2014
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
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3

number of NO contacts for main contacts	3		
operating voltage			
at AC-3 rated value maximum	690 V		
 at AC-3e rated value maximum 	690 V		
operational current			
• at AC-1 at 400 V at ambient temperature 40 °C rated	60 A		
value			
• at AC-1			
— up to 690 V at ambient temperature 40 °C rated value	60 A		
— up to 690 V at ambient temperature 60 °C rated	55 A		
value			
● at AC-3			
— at 400 V rated value	41 A		
— at 500 V rated value	41 A		
— at 690 V rated value	24 A		
• at AC-3e			
— at 400 V rated value	41 A		
— at 500 V rated value	41 A		
— at 690 V rated value	24 A		
at AC-4 at 400 V rated value	35 A		
at AC-5a up to 690 V rated value	52.8 A		
 at AC-5b up to 400 V rated value at AC-6a 	33.2 A		
	36.5 A		
— up to 230 V for current peak value n=20 rated value			
 — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value 	36.5 A 36.5 A		
— up to 500 V for current peak value n=20 rated value	24 A		
• at AC-6a	24 A		
 up to 230 V for current peak value n=30 rated value 	24.2 A		
— up to 200 V for current peak value n=30 rated value	24.2 A		
— up to 500 V for current peak value n=30 rated value	24.2 A		
— up to 690 V for current peak value n=30 rated value	24 A		
minimum cross-section in main circuit at maximum AC-1 rated	16 mm ²		
value			
operational current for approx. 200000 operating cycles at AC-4			
at 400 V rated value	22 A		
at 690 V rated value	18.5 A		
operational current			
• at 1 current path at DC-1			
— at 24 V rated value	55 A		
— at 60 V rated value	23 A		
— at 110 V rated value	4.5 A		
— at 220 V rated value	1 A		
— at 440 V rated value	0.4 A		
— at 600 V rated value	0.25 A		
 with 2 current paths in series at DC-1 			
— at 24 V rated value	55 A		
— at 60 V rated value	45 A		
— at 110 V rated value	45 A		
— at 220 V rated value	5 A		
— at 440 V rated value	1 A		
— at 600 V rated value	0.8 A		
 with 3 current paths in series at DC-1 			
— at 24 V rated value	55 A		
— at 60 V rated value	55 A		
— at 110 V rated value	55 A		
— at 220 V rated value	45 A		
— at 440 V rated value	2.9 A		
— at 600 V rated value	1.4 A		
 at 1 current path at DC-3 at DC-5 			

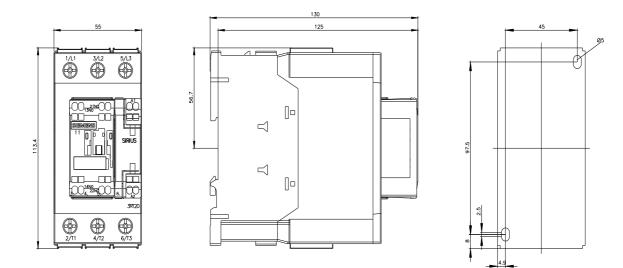
— at 24 V rated value	35 A				
— at 60 V rated value	6 A				
— at 220 V rated value	1 A				
— at 440 V rated value	0.1 A				
— at 600 V rated value	0.06 A				
 with 2 current paths in series at DC-3 at DC-5 					
— at 24 V rated value	55 A				
— at 60 V rated value	45 A				
— at 110 V rated value	25 A				
— at 220 V rated value	5 A				
— at 440 V rated value	0.27 A				
— at 600 V rated value	0.16 A				
 with 3 current paths in series at DC-3 at DC-5 					
— at 24 V rated value	55 A				
— at 60 V rated value	55 A				
— at 110 V rated value	55 A				
— at 220 V rated value	25 A				
— at 440 V rated value	0.6 A				
— at 600 V rated value	0.35 A				
operating power					
• at AC-2 at 400 V rated value	18.5 kW				
• at AC-3					
— at 230 V rated value	11 kW				
— at 400 V rated value	18.5 kW				
— at 500 V rated value	22 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 500 V rated value	22 kW				
— at 690 V rated value	22 kW				
operating power for approx. 200000 operating cycles at AC-					
4					
• at 400 V rated value	11.6 kW				
at 690 V rated value	16.8 kW				
operating apparent power at AC-6a					
 up to 230 V for current peak value n=20 rated value 	14.5 kVA				
 up to 400 V for current peak value n=20 rated value 	25.2 kVA				
	31.6 kVA				
• up to 500 V for current peak value n=20 rated value					
• up to 690 V for current peak value n=20 rated value	28.6 kVA				
• up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a	28.6 kVA				
 up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 	28.6 kVA 9.6 kVA				
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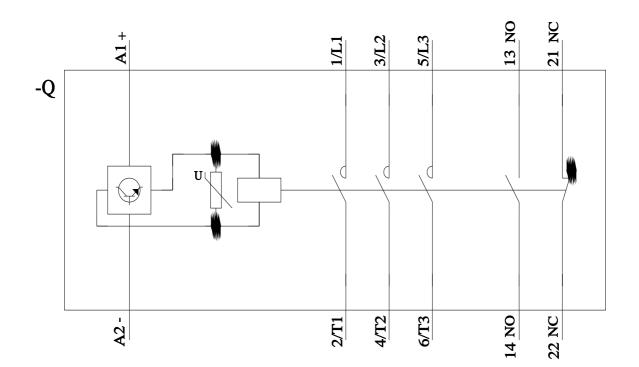
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
• full-scale value	1.2
design of the surge suppressor	with varistor
inrush current peak	2.6 A
duration of inrush current peak	50 µs
locked-rotor current mean value	0.9 A
locked-rotor current peak	2.1 A
duration of locked-rotor current	230 ms
holding current mean value	40 mA
closing power of magnet coil at DC	21.5 W
holding power of magnet coil at DC	1 W
closing delay	
• at DC	35 80 ms
opening delay	
• at DC	30 55 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
• at 400 V rated value	3 A
at 500 V rated value	2 A
at 690 V rated value	1A
operational current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A
at 60 V rated value	6 A
at 110 V rated value	3 A
at 125 V rated value	2 A
at 220 V rated value	1A
at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
at 60 V rated value	2 A
at 50 V rated value at 110 V rated value	2 A 1 A
at 125 V rated value	0.9 A
at 125 V fated value at 220 V rated value	0.9 A
	0.3 A 0.1 A
at 600 V rated value	
contact reliability of auxiliary contacts UL/CSA ratings	1 faulty switching per 100 million (17 V, 1 mA)
full-load current (FLA) for 3-phase AC motor	40.4
at 480 V rated value	40 A
at 600 V rated value	41 A
yielded mechanical performance [hp]	
for single-phase AC motor	2 hz
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
• for 3-phase AC motor	
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	15 hp

- at 460/480 V rated value	30 hp		
- at 575/600 V rated value	40 hp		
contact rating of auxiliary contacts according to UL	A600 / P600		
Short-circuit protection			
design of the fuse link			
 for short-circuit protection of the main circuit — with type of coordination 1 required 	aC: 160 A (600 \/ 100 kA) aM: 90 A (600 \/ 100 kA) DS99: 125 A (415 \/ 90		
	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)		
 — with type of assignment 2 required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)		
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)		
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 60715		
 side-by-side mounting 	Yes		
height	114 mm		
width	55 mm		
depth	130 mm		
required spacing			
 with side-by-side mounting 			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
 for grounded parts 			
— forwards	10 mm		
— upwards	10 mm		
— at the side	6 mm		
— downwards	10 mm		
 for live parts 			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	6 mm		
Connections/ Terminals			
type of electrical connection			
for main current circuit	screw-type terminals		
 for auxiliary and control circuit at contactor for auxiliary contacts 	spring-loaded terminals		
-	Spring-type terminals		
of magnet coil type of connectable conductor cross-sections for main contacts	Spring-type terminals		
solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)		
 finely stranded with core end processing 	2x (1 35 mm²), 1x (1 35 mm²)		
connectable conductor cross-section for main contacts			
finely stranded with core end processing	1 35 mm²		
connectable conductor cross-section for auxiliary contacts			
solid or stranded	0.5 2.5 mm²		
finely stranded with core end processing	0.5 1.5 mm ²		
 finely stranded without core end processing 	0.5 2.5 mm ²		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid or stranded	2x (0.5 2.5 mm²)		
 finely stranded with core end processing 	2x (0.5 1.5 mm ²)		
— finely stranded without core end processing	2x (0.5 2.5 mm ²)		
 for AWG cables for auxiliary contacts 	2x (20 14)		
AWG number as coded connectable conductor cross			
section			
 for main contacts 	18 1		
 for auxiliary contacts 	20 14		
Safety related data			
product function			

	ccording to IEC 60947-4-1		Yes			
positively driven operation according to IEC 60947-5-1 P10 value with high demand rate according to SN 21020		No 1 000 000				
B10 value with high demand rate according to SN 31920		1 000 000				
proportion of dangerous failures						
with low demand rate according to SN 31920		40 %				
with high demand rate according to SN 31920		73 %				
	w demand rate according		100 FIT			
T1 value for proof test interval or service life according to IEC 61508		20 a				
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				
suitability for use						
 safety-related system 	•		Yes			
Certificates/ approvals						
General Product App	oroval					
		<u>Confirmatio</u>		KC	EHC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	Conformity	Test Certificates		
RCM	<u>Type Examination Cer-</u> tificate	UK CA	CE EG-Konf.	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	
Marine / Shipping	-					
ABS			Lloyd's Register us	PRS	RINA	
Marine / Shipping	other	Railway	Environment			
RMRS RMRS	<u>Confirmation</u>	<u>Vibration and S</u>	hock Environmental Con- firmations			
Further information						
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