SIEMENS

Data sheet

3RT2015-2KB41



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, 0.7-1.25* Us, with integrated suppressor diode, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00, suitable for PLC outputs, not expandable with auxiliary switch

product brand name	SIRIUS
product designation	Coupling contactor
product type designation	3RT2
General technical data	51(12
size of contactor	\$00
product extension	
function module for communication	No
auxiliary switch	No
power loss [W] for rated value of the current	
at AC in hot operating state	0.6 W
at AC in hot operating state per pole	0.2 W
without load current share typical	2.8 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	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	30 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
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

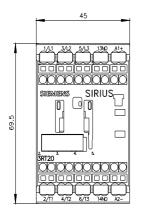
oporating voltage	
 operating voltage at AC-3 rated value maximum 	690 V
at AC-3e rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	18 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	18 A
 — up to 690 V at ambient temperature 60 °C rated value 	16 A
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
at AC-4 at 400 V rated value	6.5 A
at AC-5a up to 690 V rated value	15.8 A
 at AC-5b up to 400 V rated value at AC-6a 	5.8 A
	4 A
— up to 230 V for current peak value n=20 rated value	4 A 4 A
 — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value 	3.8 A
— up to 500 V for current peak value n=20 rated value	3.6 A
• at AC-6a	5.0 A
- up to 230 V for current peak value n=30 rated value	2.7 A
— up to 400 V for current peak value n=30 rated value	2.7 A
— up to 500 V for current peak value n=30 rated value	2.5 A
— up to 690 V for current peak value n=30 rated value	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	2.6 A
• at 690 V rated value	1.8 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
with 3 current paths in series at DC-1	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.7 A
at 1 current path at DC-3 at DC-5 — at 24 V rated value	15 A

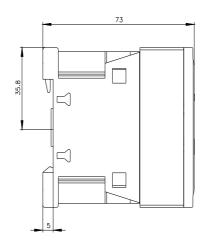
 with 3 current paths in series at DC-3 at DC-5 at 24 V rated value 15 A at 110 V rated value 15 A at 110 V rated value 15 A at 220 V rated value 12 A at 40 V rated value 0.14 A at 60 V rated value 0.14 A at 60 V rated value 0.14 A at 60 V rated value 15 kW at 230 V rated value 15 kW at 60 V ror current pack value n=20 rated value 15 kWA at 00 V for curre	3.5 A				
operating power • at AC-3					
• at AC-3 - at 230 V rated value 1.5 kW - at 400 V rated value 3 kW - at 600 V rated value 3 kW - at 800 V rated value 4 kW • at AC-3e - at 230 V rated value - at 400 V rated value 3 kW - at 200 V rated value 3 kW - at 500 V rated value 3 kW - at 600 V rated value 1.5 kW - at 600 V rated value 1.5 kW - at 600 V rated value 1.5 kW - at 600 V rated value 1.15 kW operating apparent power at AC-6a 1.5 kW • up to 400 V for current peak value n=20 rated value 2.7 kVA • up to 500 V for current peak value n=20 rated value 3.8 kVA operating apparent power at AC-6a 1.8 kVA • up to 500 V for current peak value n=30 rated value 2.8 kVA • up to 500 V for current peak value n=30 rated value 2.9 kVA short-fine withstand current in cold operating state up to 40 V for current peak value n=30 rated value					
• at AC-3e 1.5 kW - at 230 V rated value 3 kW - at 400 V rated value 3 kW - at 690 V rated value 4 kW operating power for approx. 200000 operating cycles at AC-4 4 • at 400 V rated value 1.15 kW • at 690 V rated value 1.5 kW • at 690 V for current peak value n=20 rated value 1.5 kVA • up to 200 V for current peak value n=20 rated value 2.7 kVA • up to 500 V for current peak value n=20 rated value 3.3 kVA • up to 500 V for current peak value n=20 rated value 3.4 kVA operating apparent power at AC-6a 1.5 kVA • up to 500 V for current peak value n=30 rated value 1.8 kVA • up to 500 V for current peak value n=30 rated value 2.8 kVA • up to 500 V for current peak value n=30 rated value 2.9 kVA • up to 600 V for current peak value n=30 rated value 2.8 kVA • up to 600 V for current peak value n=30 rated value 2.9 kVA • up to 600 V for current peak value n=30 rated v					
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 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 2 A; Use minimum cross-section acc. to AC-1 rated limited to 60 s switching at zero current maximum 43 A; Use minimum cross-section acc. to AC-1 rated at DC at DC at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum 250 1/h at AC-4 maximum 250 1/h Control circuit/ Control type of voltage of the control supply voltage DC 					
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum 43 A; Use minimum cross-section acc. to AC-1 rated at DC at DC at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum 250 1/h 250 1/h 250 1/h 250 1/h 250 1/h 					
• limited to 60 s switching at zero current maximum 43 A; Use minimum cross-section acc. to AC-1 rated no-load switching frequency - • at DC 10 000 1/h operating frequency - • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum 250 1/h • at AC-4 maximum DC					
no-load switching frequency 10 000 1/h operating frequency 10 000 1/h at AC-1 maximum 1 000 1/h at AC-2 maximum 750 1/h at AC-3 maximum 750 1/h at AC-3 maximum 750 1/h at AC-3 maximum 250 1/h at AC-4 maximum 250 1/h type of voltage of the control supply voltage DC control supply voltage at DC DC					
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• at AC-3e maximum 750 1/h • at AC-4 maximum 250 1/h Control circuit/ Control 250 1/h type of voltage of the control supply voltage DC control supply voltage at DC Image: Control supply voltage at DC					
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Control circuit/ Control type of voltage of the control supply voltage DC control supply voltage at DC					
type of voltage of the control supply voltage DC control supply voltage at DC DC					
control supply voltage at DC					
operating range factor control supply voltage rated value of					
magnet coil at DC					
• initial value 0.7					
• full-scale value 1.25					
design of the surge suppressor suppressor diode					
closing power of magnet coil at DC 2.8 W					

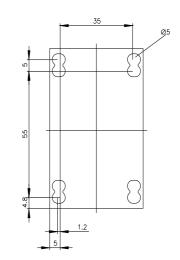
	0.0.14
holding power of magnet coil at DC	2.8 W
closing delay	
• at DC	25 130 ms
opening delay	
• at DC	7 20 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current 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	1 A
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	1 A
• 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 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	4.8 A
• at 600 V rated value	6.1 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
- with type of coordination 1 required	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 26A (690V,100kA), BS88: 20A (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 $\pm 1/22$ 5° on vortical mounting surface.
factoning method	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	70 mm
width	45 mm
depth	73 mm

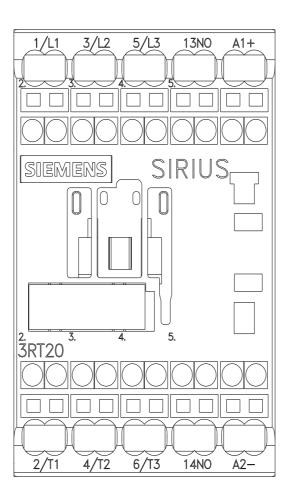
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
 for live parts 	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
• for main current circuit	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main contacts	0. (0.5 4 mm2)
• solid	2x (0.5 4 mm ²)
solid or stranded	$2x (0.5 \dots 4 \text{ mm}^2)$
finely stranded with core end processing	2x (0.5 2.5 mm ²)
• finely stranded without core end processing	2x (0.5 2.5 mm²)
connectable conductor cross-section for main contacts solid 	0.5 4 mm²
solid stranded	0.5 4 mm ²
 finely stranded with core end processing 	0.5 2.5 mm ²
 finely stranded with core end processing finely stranded without core end processing 	0.5 2.5 mm ²
connectable conductor cross-section for auxiliary contacts	0.0 2.0 mm
solid or stranded	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 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 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm ²)
— finely stranded without core end processing	2x (0.5 2.5 mm ²)
for AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross	
section	
• for main contacts	20 12
for auxiliary contacts	20 12
Safety related data	
product function	No
mirror contact according to IEC 60947-4-1	No
suitability for use safety-related switching OFF	Yes
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	40 %
with low demand rate according to SN 31920 with high demand rate according to SN 31920	40 % 73 %
with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC	20 a
61508 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	

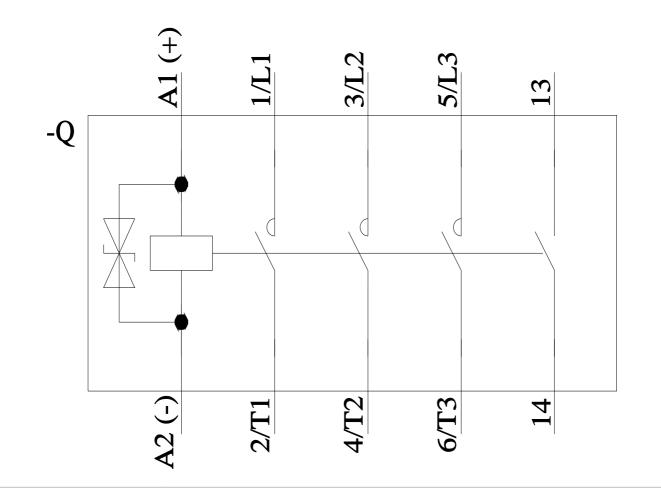
SP CM	<u>Confirmation</u>	CCC CCC		<u>KC</u>	EHC		
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confor	mity	Test Certificates			
RCM	<u>Type Examination Cer-</u> tificate	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	Special Test Certific- ate		
Test Certificates	Marine / Shipping						
<u>Miscellaneous</u>	ABS	BUREAU VERITAS		Llovds Register uis	PRS		
Marine / Shipping		other		Railway	Dangerous Good		
RINA	RMRS R	<u>Confirmation</u>	DE	Vibration and Shock	Transport Information		
Environment							
Environmental Con- firmations							
Further information							
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Further characteristic http://www.automation	Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-2KB41&objecttype=14&gridview=view1						











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