SIEMENS

Data sheet

3RT2018-2AK62



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00 $\,$

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
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 	3 W
 at AC in hot operating state per pole 	1 W
 without load current share typical 	5.9 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 AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	30 000 000
 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)	10/01/2009
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

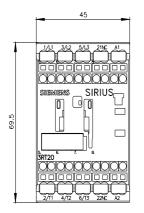
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
 at AC-3e rated value maximum 	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
value	
• at AC-1	
 — up to 690 V at ambient temperature 40 °C rated value 	22 A
— up to 690 V at ambient temperature 60 °C rated	20 A
value	
• at AC-3	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
• at AC-3e	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
• at AC-4 at 400 V rated value	11.5 A
• at AC-5a up to 690 V rated value	19.4 A
at AC-5b up to 400 V rated value	13.2 A
• at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	9.6 A
 — up to 400 V for current peak value n=20 rated value 	9.6 A
 — up to 500 V for current peak value n=20 rated value 	9.6 A
— up to 690 V for current peak value n=20 rated value	8.9 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	6.6 A
— up to 400 V for current peak value n=30 rated value	6.4 A
— up to 500 V for current peak value n=30 rated value	6.4 A
— up to 690 V for current peak value n=30 rated value	6.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	5.5 A
• at 690 V rated value	4.4 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
 at 1 current path at DC-3 at DC-5 	

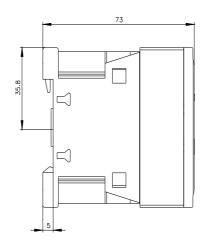
— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power	
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
● at AC-3e	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
 at 400 V rated value 	2.5 kW
 at 690 V rated value 	3.5 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	3.8 kVA
 up to 400 V for current peak value n=20 rated value 	6.6 kVA
 up to 500 V for current peak value n=20 rated value 	8.3 kVA
 up to 690 V for current peak value n=20 rated value 	10.6 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	2.5 kVA
 up to 400 V for current peak value n=30 rated value 	4.4 kVA
 up to 500 V for current peak value n=30 rated value 	5.5 kVA
 up to 690 V for current peak value n=30 rated value 	7.6 kVA
short-time withstand current in cold operating state up to	
40 °C	
 limited to 1 s switching at zero current maximum 	300 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	169 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	128 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	92 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	74 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	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-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	110 V
at 60 Hz rated value	120 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.81.1

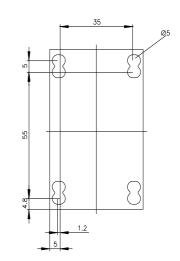
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	36 VA
• at 60 Hz	36 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.8
• at 60 Hz	0.8
apparent holding power of magnet coil at AC	
● at 50 Hz	5.9 VA
● at 60 Hz	5.9 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.24
• at 60 Hz	0.24
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact	
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	14 A
• at 600 V rated value	11 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	10 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	

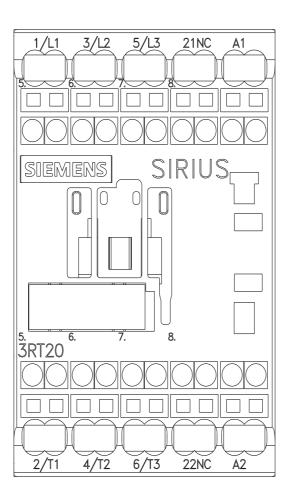
with type of assignment 2 required 95: 50x (600X, 100A), BSSB: 50A (419V-80A)) with type of assignment 2 required 95: 50x (600V, 100A), ASSB: 50A (419V-80A)) Installational mounting dimensions 95: 50x (600V, 100A), ASSB: 20A (419V-80A)) installational mounting dimensions 95: 50x (600V, 100A), ASSB: 20A (419V-80A)) installational mounting dimensions	• for short-circuit protection of the main circuit	
• (a is shot-circuit preferences) perturbation peruperuperturbation perturbation	 — with type of coordination 1 required 	gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)
Installation mounting ostilion 4/100 motilion position in advanced by 4/-0.22 for vertical mounting surface: can be filled forward and badvanced by 4/-0.22 for vertical mounting surface: can be filled forward and badvanced by 4/-0.22 for vertical mounting surface: can be filled forward and badvanced by 4/-0.22 for vertical mounting surface: can be filled forward and badvanced by 4/-0.22 for vertical mounting surface: can be filled forward and badvanced by 4/-0.22 for vertical mounting surface: can be filled forward and badvanced by 4/-0.22 for vertical mounting surface: can be filled forward and badvanced by 4/-0.22 for vertical mounting surface: can be filled forward and badvanced by 4/-0.22 for vertical mounting surface: can be filled forward and badvanced by 4/-0.22 for vertical mounting surface: can be filled forwards equived spacing • (In the side in the side	 — with type of assignment 2 required 	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
mounting position +160° relation possible or vertical mounting surface; can be illed forward and becker by vice 25° movetical mounting vertical mounting vertinal vertind vertical mounting vertical mounting vertical mounting	 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
The standard by 44.225 on were an anaport mounting surface Besing method screw and snaport mounting surface Neight 70 mm depth 70 mm required spacing 70 mm - forwards 10 mm - downards 10 mm - downard	Installation/ mounting/ dimensions	
eight Yes height 70 mm vidth 45 mm depth 73 mm required spacing 10 mm - forwards 10 mm - forwards 10 mm - downards 10 mm - downar	mounting position	
height 70 mm vidth 45 mm opth 73 mm required spacing 70 mm • with sole-byside mounting 70 mm - forwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm i of ranin countacts <	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
width 45 mm depth 73 mm required spacing 73 mm • with side-by-side mounting 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - at the side 6 mm - downwards 10 mm - downards <	side-by-side mounting	Yes
depth 73 mm required spacing - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 00 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 20 for <tr< td=""><td></td><td></td></tr<>		
required spacing		
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- domwards 6 mm - dowwards 10 mm - forwards 10 mm - forwards 10 mm - upwards 10 mm - upwards 10 mm - dowwards 6 mm - dowwards 6 mm - dowwards 5 mm Connectors/ Terminals 5 mm Connectors/ Terminals 5 mm Connector for auxiliary and control circuit spring-loaded terminals + for main current circuit Spring-loaded terminals + of magnet col Spring-loaded terminals + of magnet col Spring-loaded terminals + solid 2x (0.5 4 mm ²) - solid 2x (0.5 4 mm ²) - solid 0.5 4 mm ² - solid 0.5 4 mm ² - finely stranded without core end processing 0.5 2.5 mm ² - finely stranded without core end processing 0.5 2.5 mm ² - solid or stranded 0.5 2.5 mm ² - for auxiliary contacts 2 2.5 mm ² - for auxiliary contacts 2 2.5 mm ² <td< td=""><td></td><td></td></td<>		
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• for live partsImage: Constraint of the parts- forwards10 mm- downwards10 mm- downwards10 mm- downwards0 mm- at the side6 mm5 mmspring-loaded teminalsfor main current circuitspring-loaded teminalsi of roauxiliary contactsSpring-type teminalsi ot contactor for auxiliary contactsSpring-type teminalsi ot contactor for auxiliary contacts2x (0.5 4 mm²)i ot contactor for auxiliary contacts2x (0.5 4 mm²)i of agent coll2x (0.5 4 mm²)i finely stranded with core end processing2x (0.5 2.5 mm²)i finely stranded with core end processing0.5 2.5 mm²i finely stra		
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	— upwards	10 mm
Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • of maxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals • solid 2x (0.5 4 mm²) • solid or stranded 2x (0.5 4 mm²) • finely stranded with core end processing 2x (0.5 4 mm²) • finely stranded with core end processing 0.5 4 mm² • solid 0.5 4 mm² • solid or stranded 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² • solid or stranded 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely	— downwards	10 mm
type of electrical connection for main current circuit for auxiliary and control circuit spring-loaded terminals spring-loaded terminals spring-loaded terminals spring-loaded terminals spring-type terminals type of connectable conductor cross-section for auxiliary contacts spring-transfer for auxiliary contacts for auxiliary contacts tor auxiliary contacts tor auxiliary contacts<td>— at the side</td><td>6 mm</td>	— at the side	6 mm
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• for auxiliary and control circuit spring-loaded terminals • of magnet coil Spring-type terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts 2x (0.5 4 mm²) • solid 2x (0.5 4 mm²) • finely stranded with core end processing 2x (0.5 2.5 mm²) • connectable conductor cross-section for main contacts 0.5 4 mm² • solid 0.5 4 mm² • solid or stranded 0.5 4 mm² • solid 0.5 4 mm² • solid or stranded 0.5 4 mm² • solid 0.5 4 mm² • solid or stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 4 mm² • solid or stranded 0.5 4 mm² • solid or stranded 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • for auxiliary contacts 2.5 mm² • for auxiliary contacts 2x (0.5 2.5 mm² • for auxiliary contacts 2x (0.5 2.5 mm²) • finely stranded with core end processing 2x (0.5 2.5 mm²) • finely stranded w	type of electrical connection	
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mirror contact according to IEC 60947-4-1 Yes	product function	
	 mirror contact according to IEC 60947-4-1 	Yes

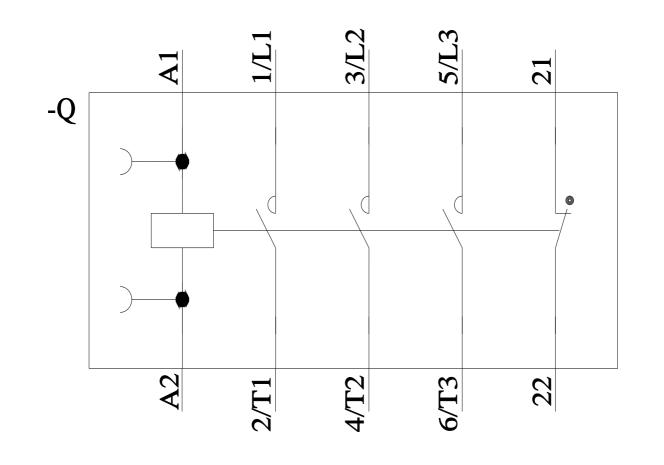
B10 value with high					
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proportion of dang	erous failures				
 with low dema 	and rate according to SN 319	20 40 %	5		
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failure rate [FIT] with	n low demand rate according	to SN 31920 100 F	FIT		
T1 value for proof te 61508	est interval or service life acco	ording to IEC 20 a			
protection class IP	on the front according to I	EC 60529 IP20			
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suitability for use					
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ertificates/ approva					
General Product A	pproval				
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EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confor	rmity	Test Certificates	
RCM	Type Examination Cer- tificate	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report
Marine / Shipping					
ABS	B U R E A U V E R I T A S		Lloyds Register urs	PRS	RINA
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