SIEMENS

Data sheet

3RT1065-6PF35



power contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 96-127 V AC/DC auxiliary contacts 1 NO + 1 NC 3-pole, frame size S10 busbar connections drive: electronic with PLC / SIMOCODE - interface and remaining lifetime signal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S10
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 	54 W
 at AC in hot operating state per pole 	18 W
 without load current share typical 	3.4 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (switching 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)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
5 1	

relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30	95 %
maximum	
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	4 000 \/
at AC-3 rated value maximum	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	330 A
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	550 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	330 A
rated value	
— up to 690 V at ambient temperature 60 °C rated value	300 A
— up to 1000 V at ambient temperature 40 °C	150 A
rated value	
— up to 1000 V at ambient temperature 60 °C	150 A
rated value	
• at AC-3	265 4
— at 400 V rated value	265 A 265 A
— at 500 V rated value	265 A 265 A
— at 690 V rated value — at 1000 V rated value	265 A 95 A
• at AC-3e	33 A
- at 400 V rated value	265 A
— at 500 V rated value	265 A
— at 1000 V rated value	95 A
• at AC-4 at 400 V rated value	230 A
• at AC-5a up to 690 V rated value	290 A
 at AC-5b up to 400 V rated value 	219 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated	265 A
value	265 4
 — up to 400 V for current peak value n=20 rated value 	265 A
— up to 500 V for current peak value n=20 rated	265 A
value	
 — up to 690 V for current peak value n=20 rated value 	265 A
— up to 1000 V for current peak value n=20 rated	95 A
value	
● at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	184 A
— up to 400 V for current peak value n=30 rated	184 A
value	
 up to 500 V for current peak value n=30 rated 	184 A
value — up to 690 V for current peak value n=30 rated	184 A
value	
 — up to 1000 V for current peak value n=30 rated value 	95 A
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm ²
operational current for approx. 200000 operating	
cycles at AC-4 • at 400 V rated value	117 A
	117 A 105 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	300 A

— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	300 A
— at 110 V rated value	3 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
• with 2 current paths in series at DC-3 at DC-5	0.1207
- at 24 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
 with 3 current paths in series at DC-3 at DC-5 	0.57 A
- at 24 V rated value	300 A
— at 110 V rated value	
	300 A
— at 220 V rated value	300 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
• at AC-3	
— at 230 V rated value	75 kW
— at 400 V rated value	132 kW
— at 500 V rated value	160 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
• at AC-3e	
— at 230 V rated value	75 kW
— at 400 V rated value	132 kW
— at 500 V rated value	160 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	66 kW
at 400 V rated value at 690 V rated value	102 kW
operating apparent power at AC-6a	100 000 kVA
• up to 230 V for current peak value n=20 rated value	180 000 KVA 180 000 VA
• up to 400 V for current peak value n=20 rated value	
• up to 500 V for current peak value n=20 rated value	220 000 VA
• up to 690 V for current peak value n=20 rated value	310 000 VA
 up to 1000 V for current peak value n=20 rated value 	160 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	70 000 VA
• up to 400 V for current peak value n=30 rated value	120 000 VA
up to 500 V for current peak value n=30 rated value	150 000 VA

a up to 600 V for ourrent pools value p=20 rated value	220,000 \/A		
 up to 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated 	220 000 VA 160 000 VA		
• up to 1000 v for current peak value n=30 rated value	160 000 VA		
short-time withstand current in cold operating state up to 40 °C			
 limited to 1 s switching at zero current maximum 	4 880 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 5 s switching at zero current maximum 	4 045 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 10 s switching at zero current maximum 	2 785 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 30 s switching at zero current maximum 	1 664 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 60 s switching at zero current maximum 	1 276 A; Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency			
• at AC	1 000 1/h		
• at DC	1 000 1/h		
operating frequency			
• at AC-1 maximum	800 1/h		
• at AC-2 maximum	300 1/h		
• at AC-3 maximum	700 1/h		
• at AC-3e maximum	700 1/h		
• at AC-4 maximum	130 1/h		
Control circuit/ Control			
type of voltage of the control supply voltage	AC/DC		
control supply voltage at AC			
• at 50 Hz rated value	96 127 V		
• at 60 Hz rated value	96 127 V		
control supply voltage at DC			
rated value	96 127 V		
type of PLC-control input according to IEC 60947-1	Туре 2		
consumed current at PLC-control input according to	20 mA		
IEC 60947-1 maximum			
voltage at PLC-control input rated value	24 V 0.8 1.1		
operating range factor of the voltage at PLC-control input	0.0 1.1		
operating range factor control supply voltage rated value of magnet coil at DC			
• initial value	0.8		
full-scale value	1.1		
operating range factor control supply voltage rated value of magnet coil at AC			
• at 50 Hz	0.8 1.1		
• at 60 Hz	0.8 1.1		
design of the surge suppressor apparent pick-up power of magnet coil at AC	with varistor		
• at 50 Hz	530 VA		
• at 50 Hz	530 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 VA		
• at 60 Hz	5 VA		
inductive power factor with the holding power of the coil			
● at 50 Hz	0.5		
• at 60 Hz	0.5		
closing power of magnet coil at DC	580 W		
holding power of magnet coil at DC	3.4 W		
closing delay	45 - 00 mg		
• at AC	45 80 ms		
• at DC	45 80 ms		
opening delay • at AC	80 100 ms		
• at DC	80 100 ms		

arcing time	10 15 ms		
control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)		
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 	6 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	040.4		
at 480 V rated value	240 A		
at 600 V rated value	242 A		
yielded mechanical performance [hp]			
 for 3-phase AC motor at 200/208 V rated value 	75 hp		
— at 220/200 V rated value	100 hp		
— at 460/480 V rated value	200 hp		
— at 575/600 V rated value	250 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: 500 A (690 V, 100 kA)		
— with type of essignment 2 required	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415		
	V, 50 kA)		
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)		
Installation/ mounting/ dimensions			
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back		
fastening method	screw fixing		
 side-by-side mounting 	Yes		
height	210 mm		
width	165 mm		
depth	202 mm		
required spacing			
 with side-by-side mounting 			
— forwards	20 mm		
— upwards	10 mm		

- art the side 0 mm - error grounded parts 20 mm - error grounded parts 20 mm - error grounded parts 10 mm - error grounded parts 20 mm - error grounded parts 20 mm ²	— downwards	10 mm		
- forwards - forwards - at the side - downwards - downwards - downwards - downwards - downwards - downwards - forwards - downwards - forwards - downwards - downward - sold or stranded - sol				
 a) the side c) ownwards c) ownwa		20 mm		
	— upwards	10 mm		
• for ive parts • for ive parts • downwards • downards • do	— at the side	10 mm		
- Inwards 20 mm - Upwards 10 mm - a the side 10 mm - a the side 10 mm - Tornection? 0 mm - a the side 10 mm - Orderection? 0 mm - a the side 0 mm - a contactor for auxiliary contacts 25 mm - a standed 11 mm - a standed 10 mm ³ - a standed 0 main contacts - a standed 0 mone standed - a stander 0 mone standed - a stander 0 mone standed - a standerection 0 mone standed - a standerection 0 mone standed - a standerect	— downwards	10 mm		
	 for live parts 			
- downwards - a the side 10 mm - a the side 10 mm - a the side 10 mm OrmaceLoss? Version Connection har - for auxiliary and control circuit Screw-type terminals - a to contact for auxiliary contacts Screw-type terminals - of auxiliary and control circuit Screw-type terminals - a to contact for auxiliary contacts 25 mm - a to connection bar 6 mm diameter of holes 1 - a town of connectable conductor cross-section for main 1 connectable conductor cross-section for auxiliary 1 - solid - stranded 0.5 4 mm² - solid or stranded 0.5 4 mm² 0.5 4 mm² - solid or stranded 0.5 15 mm², 2x (0.75 25 mm²), max. 2x (0.75 4 mm²) - solid or stranded 0.5 15 mm², 2x (0.75 25 mm²), max. 2x (0.75 4 mm²) - solid or stranded 18 14 - solid or stranded 18 14 - solid or stranded 18 14 - solid or stranded 1000 000 - solid or stranded 18 14 - solid or stranded 18 14 Bo	— forwards	20 mm		
a the aid 10 mm Connectional Terminals Connection bar • for main current circuit • connection bar • a contraction for auxiliary and control circuit Screw-type terminals • of magnet coll 25 crew-type terminals • of magnet coll 25 crew-type terminals • of magnet coll 25 mm • thickness of connection bar 6 mm diameter of holes 1 mm • and the added 0	— upwards	10 mm		
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Type of electrical connection for main current dircuit for auxiliary and control circuit at contactor for auxiliary contacts of magnetical width of connection bar for auxiliary contacts screw-type terminals Screw-type termi	— at the side	10 mm		
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	 for main current circuit 	Connection bar		
• of magnet coll Screw-type terminals width of connection bar 25 mm diameter of holes 11 mm number of holes 1 type of connectable conductor cross-sections 1 • at AWG cables for main contacts 20 500 kcmil connectable conductor cross-section for auxiliary contacts 70 240 mm ³ connectable conductor cross-section for auxiliary contacts 0.5 4 mm ³ • stranded 0.5 4 mm ³ • for auxiliary contacts 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ³) • solid or stranded 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ³) • a solid or stranded 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ³) • a ta WG cables for auxiliary contacts 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) • a ta WG cables for auxiliary contacts 18 14 Safety rolated data 100 000 product function 11 4 • safety-related switching OFF Yes • safety-related switching	 for auxiliary and control circuit 	screw-type terminals		
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type of connectable conductor cross-section for main contacts 2/0 500 kcmil e standed 70 240 mm ³ connectable conductor cross-section for main contacts 70 240 mm ³ e stranded 70 240 mm ³ connectable conductor cross-sections 0.5 4 mm ³ • finely stranded with core end processing 0.5 4 mm ³ - solid 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ³) - solid or stranded 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ³) - finely stranded with core end processing 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ³) - finely stranded with core end processing 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ³) - finely stranded data 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³) AWG number as coded connectable conductor cross section 18 14 Safety related data 1000 000 product function 1000 000 inprotection class IP on the front according to IEC 60947-5. 1000 000 IP00; IP20 with box terminal/cover 6523 suitability for use safety-related switching OFF Yes Certificates/ approvals Contifmation	diameter of holes	11 mm		
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 		$2x (0.5 - 1.5 \text{ mm}^2) 2x (0.75 - 2.5 \text{ mm}^2) \text{ max} 2x (0.75 - 4 \text{ mm}^2)$		
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• at AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 1x 12 AWG number as coded connectable conductor cross section • for auxiliary contacts 18 14 • for auxiliary contacts 18 14 Safety related data • product function • mirror contact according to IEC 60947-4-1 Yes • positively driven operation according to IEC 60947- 5-1 Yes B10 value with high demand rate according to SN 31920 1 000 000 protection class IP on the front according to IEC 60529 IP00; IP20 with box terminal/cover suitability for use • safety-related switching OFF • safety-related switching OFF Yes Cortificates/ approvals Confirmation General Product Approval Confirmation ECC Confirmation				
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Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use • safety-related switching OFF Yes Certificates/ approvals General Product Approval Confirmation MC Confirmation				
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		Yes		
5-1	-	No		
protection class IP on the front according to IEC IP00; IP20 with box terminal/cover touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover suitability for use • safety-related switching OFF Yes Certificates/ approvals General Product Approval KC Example Confirmation KC Confirmation Up KC	5-1			
60529 touch protection on the front according to IEC 60529 suitability for use • safety-related switching OFF Yes Certificates/ approvals Confirmation KC Confirmation KC Certificates/ approvals Confirmation KC Confirmation KC Confirmation	B10 value with high demand rate according to SN 31920	1 000 000		
touch protection on the front according to IEC 60529 suitability for use • safety-related switching OFF Yes Certificates/ approvals Centificates/ approvals Confirmation KC Certificates/ approvals Confirmation KC Certificates/ approvals		IP00; IP20 with box terminal/cover		
suitability for use • safety-related switching OFF Yes Certificates/ approvals General Product Approval General Product Approval Confirmation KC EFFC Ccc				
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Certificates/ approvals General Product Approval Confirmation CCC CCC CCC CCC CCC CCC CCC C	-	Voc		
General Product Approval				
Confirmation Confirmation Confirmation Confirmation				
	General Product Approval			
EMC Functional Declaration of Conformity Test Certificates				

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	Safety/Safety of Machinery				
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report
Marine / Shipping					other
ABS	Lloyd's Register urs	PRS	RMRS R	DNV-GL	<u>Miscellaneous</u>
other			Railway		
<u>Confirmation</u>	<u>Confirmation</u>	<u>Miscellaneous</u>	Special Test Certific- ate		
Further information					
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