SIEMENS

Data sheet

3RT2027-2AB00



Power contactor, AC-3 32 A, 15 kW / 400 V 1 NO + 1 NC, 24 V AC, 50 Hz 3-pole, size S0 Spring-type terminals

product brand name SIRIUS product designation Power contactor opticat type designation SRT2 Ceneral technical data S0 size of contactor S0 product systemsion No • auxiliary switch Yes • at AC in hot operating state per pole 2.3 W • at AC in hot operating state per pole 2.3 W • without load current share typical 9.8 W Insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 6 k/V • of main contacts according to EN 6097-1 shock resistance are trectangular impulse 400 V • at AC 8,3g / 5 ms. 5,3g / 10 ms shock resistance with sine pulse 10,000,000 • of contactor hytical 10,000,000 • of contactor hytin adde auxillary switch block typical 10,000,000<	and a last	
product type designation 3RT2 General technical data	product brand name	SIRIUS
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relative humidity at 55 °C according to IEC 60068-2-30 95 %	 during storage 	
maximum	-	
Main circuit		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 value 	50 A
• at AC-1	
	50 A
— up to 690 V at ambient temperature 40 °C rated value	50 A
— up to 690 V at ambient temperature 60 °C	42 A
rated value	
• at AC-3	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-4 at 400 V rated value	22 A
• at AC-5a up to 690 V rated value	44 A
• at AC-5b up to 400 V rated value	26.5 A
• at AC-6a	00.0.4
 — up to 230 V for current peak value n=20 rated value 	30.8 A
— up to 400 V for current peak value n=20 rated value	30.8 A
— up to 500 V for current peak value n=20 rated	27 A
value — up to 690 V for current peak value n=20 rated	21 A
• at AC-6a	00 5 4
 — up to 230 V for current peak value n=30 rated value 	20.5 A
 — up to 400 V for current peak value n=30 rated value 	20.5 A
 — up to 500 V for current peak value n=30 rated value 	18 A
— up to 690 V for current peak value n=30 rated value	18 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	12 A
• at 690 V rated value	12 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value — at 440 V rated value	1 A 0.4 A
— at 440 V rated value — at 600 V rated value	0.4 A 0.25 A
with 2 current paths in series at DC-1	0.25 A
- at 24 V rated value	35 A
— at 110 V rated value	35 A 35 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	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 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	20 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
• with 2 current paths in series at DC-3 at DC-5	05.4
— at 24 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A 0 27 A
— at 440 V rated value — at 600 V rated value	0.27 A 0.16 A
with 3 current paths in series at DC-3 at DC-5	0.10 A
- at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	15 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 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	6 kW
• at 690 V rated value	10.3 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	12.2 kVA
• up to 400 V for current peak value n=20 rated value	21.3 kVA
• up to 500 V for current peak value n=20 rated value	23.3 kVA
 up to 690 V for current peak value n=20 rated value 	25 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	8.1 kVA
 up to 400 V for current peak value n=30 rated value 	14.2 kVA
 up to 500 V for current peak value n=30 rated value 	15.5 kVA
 up to 690 V for current peak value n=30 rated value 	21.5 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	499 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum 	395 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 0 s switching at zero current maximum 	260 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	186 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	152 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 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	24 V
operating range factor control supply voltage rated value of magnet coil at AC	

• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	77 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.82
apparent holding power of magnet coil at AC	
• at 50 Hz	9.8 VA
inductive power factor with the holding power of the	
coil	0.05
• at 50 Hz	0.25
elosing delay • at AC	0 40 mg
	8 40 ms
opening delay • at AC	1 16 mg
	4 16 ms
arcing time	10 10 ms Standard A1 - A2
control version of the switch operating mechanism	Standard AT - AZ
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
instantaneous contact	
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 24 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 220 V rated value	0.15 A
operational current at DC-13	0.13 A
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	1A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 220 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	27 A
 at 480 V rated value at 600 V rated value 	27 A 27 A
• at 600 v rated value yielded mechanical performance [hp]	
for single-phase AC motor	
 for single-phase AC motor at 110/120 V rated value 	2 hp
— at 230 V rated value	
for 3-phase AC motor	5 hp
at 200/208 V rated value	10 hp
— at 220/200 V rated value	10 hp
— at 460/480 V rated value	20 hp
— at 575/600 V rated value	25 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 	gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)
— with type of assignment 2 required	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V,
man type of doorginnent 2 required	ger en (1000, 1000, 1000, 1000, 1000, 1000, 1000, 000, 100,

80kA)

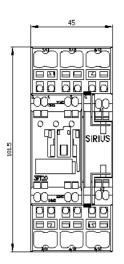
• for short-circuit protection of the auxiliary switch required

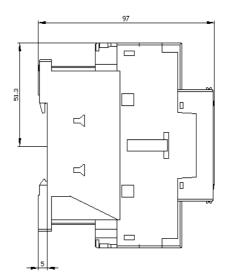
gG: 10 A (500 V, 1 kA)

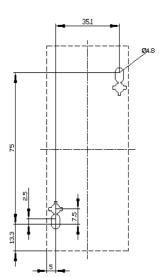
required	
nstallation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted
	forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
	according to DIN EN 60715
• side-by-side mounting	Yes 102 mm
height width	45 mm
depth	97 mm
required spacing	57 mm
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 type of connectable conductor cross costions	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
- solid	2x (1 10 mm²)
— solid or stranded	2x (1 10 mm²)
— finely stranded with core end processing	2x (1 6 mm ²)
— finely stranded without core end processing	2x (1 6 mm ²)
• at AWG cables for main contacts	2x (18 8)
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
stranded	1 10 mm²
 finely stranded with core end processing 	1 6 mm²
 finely stranded without core end processing 	1 6 mm²
connectable conductor cross-section for auxiliary	
contacts	0.5 2.5 mm ²
 solid or stranded finely stranded with core and processing 	0.5 2.5 mm² 0.5 1.5 mm²
 finely stranded with core end processing finely stranded without core end processing 	0.5 2.5 mm ²
• Intely stranded without core end processing type of connectable conductor cross-sections	0.0 2.0 mm
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)
	2x (0.5 2.5 mm ²)
 finely stranded without core end processing 	
 finely stranded without core end processing at AWG cables for auxiliary contacts 	
 finely stranded without core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section 	2x (20 14)
• at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	
• at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section	2x (20 14)

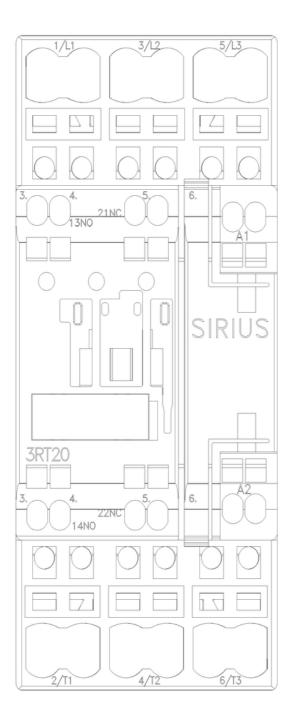
product function

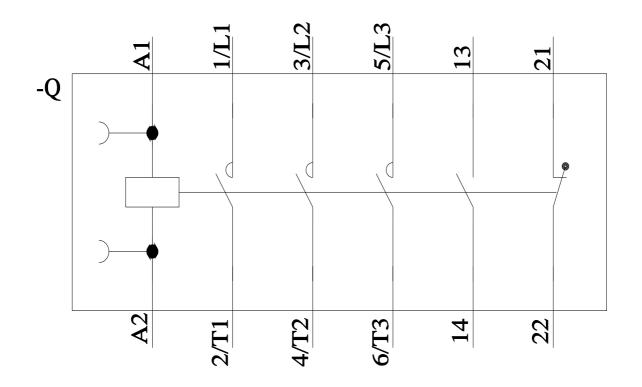
B10 value with high proportion of dang • with low dema • with high dem failure rate [FIT] with 31920 T1 value for proof te IEC 61508 protection class IP 60529	and rate according to SN and rate according to SN a low demand rate accord st interval or service life on the front according n the front according to switching OFF	o SN 31920 4 31920 4 J 31920 5 ding to SN 5 according to 2 to IEC 1 b IEC 60529 f	Yes 450 000 40 % 73 % 100 FIT 20 y P20 inger-safe, for vertical con Yes	tact from the front	
(SP)	<u>Confirmation</u>		U	<u>KC</u>	EAC
EMC	Functional Safety/Safety of Machinery	Declaration of 0	Conformity	Test Certificates	
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					
ABS	B U R E A U VERITAS		Llovd's Register us	PRS	RINA
Marine / Shipping	other			Railway	
RMRS R	<u>Confirmation</u>		<u>Confirmation</u>	Vibration and Shock	
Further information					
Information- and D https://www.siemens Industry Mall (Onlin https://mall.industry. Cax online generat http://support.autom Service&Support (I https://support.indus Image database (pi http://www.automatii Characteristic: Trip https://support.indus Further characterist	ne ordering system) siemens.com/mall/en/en or ation.siemens.com/WW/ Manuals, Certificates, C try.siemens.com/cs/ww/ oduct images, 2D dime on.siemens.com/bilddb/c opping characteristics, I ² try.siemens.com/cs/ww/ stics (e.g. electrical end	/Catalog/product?n CAXorder/default.a Characteristics, FA en/ps/3RT2027-2A ension drawings, f enxion drawing	<u>spx?lang=en&mlfb=3RT20</u> AQs,) <u>B00</u> 3D models, device circuit 3RT2027-2AB00⟨=en rent <u>B00/char</u>	t diagrams, EPLAN mac	











last modified:

6/2/2022 🖸