SIEMENS

Data sheet 3RT2028-1BB40



power contactor, AC-3e/AC-3, 38 A, 18.5 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO + 1 NC, screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
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 	9.6 W
 at AC in hot operating state per pole 	3.2 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 safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 10g / 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)	10/01/2009
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	000 \
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	
 — up to 690 V at ambient temperature 40 °C rated value 	50 A
 up to 690 V at ambient temperature 60 °C rated value 	42 A
• at AC-3	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	38 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	31.5 A
• at AC-6a	
 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 value 	30.8 A
— up to 690 V for current peak value n=20 rated value	21 A
 at AC-6a 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	21.4 A
— up to 690 V for current peak value n=30 rated value	21 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm²
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 60 V rated value	20 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	35 A
— at 60 V rated value	35 A
— at 110 V rated value	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 60 V rated value	35 A

	— at 110 V rated value	35 A
art 400 V rated value art 100 V rated value art 200 V rated va		
■ at 100 v rated value ■ at 224 v rated value ■ at 80 v rated value ■ at 40 v rated value ■ at 80 v rated value ■ at 80 v rated value ■ at 40 v rated value ■ at 80 v rated val		
### at 1 current path at DC-3 at DC-5 ### at 20 V rated value ### at 20 V rated value ### at 220 V rated value ### at 230 V rated value ### at		
	·	20 A
	— at 60 V rated value	5 A
	— at 110 V rated value	2.5 A
	— at 220 V rated value	1 A
with 2 current paths in series at DC-3 at DC-5 = at 24 V rated value = at 100 V rated value = at 220 V rated value = at 220 V rated value = at 220 V rated value = at 440 V rated value = at 600 V rated value = at 230 V rated value = at 200 V rated value = at 600 V rated value = at 600 V rated value = at 600 V rated value = at 400 V rated value = at 600 V rated val	— 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 	
at 110 Y rated value at 240 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 110 V rated value at 120 V rated value at 140 V rated value	— at 24 V rated value	35 A
	— at 60 V rated value	35 A
	— at 110 V rated value	15 A
■ with 3 current paths in series at DC-3 at DC-5	— at 220 V rated value	3 A
- with 3 current paths in series at DC-3 at DC-5	— 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 	
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no-load switching frequency	 limited to 30 s switching at zero current maximum 	199 A; Use minimum cross-section acc. to AC-1 rated value
 at DC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum 750 1/h 	 limited to 60 s switching at zero current maximum 	162 A; Use minimum cross-section acc. to AC-1 rated value
operating frequency • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h	no-load switching frequency	
 at AC-1 maximum at AC-2 maximum at AC-3 maximum 1 000 1/h 750 1/h 750 1/h 	• at DC	1 500 1/h
 at AC-2 maximum at AC-3 maximum 750 1/h 750 1/h 	operating frequency	
• at AC-3 maximum 750 1/h	• at AC-1 maximum	1 000 1/h
	• at AC-2 maximum	750 1/h
• at AC-3e 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	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	1.1
closing power of magnet coil at DC	5.9 W
holding power of magnet coil at DC	5.9 W
closing delay	
• at DC	50 170 ms
opening delay	45 40
• at DC	15 18 ms
arcing time	10 10 ms Standard A1 - A2
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	1
instantaneous 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	40.0
• at 24 V rated value	10 A
• at 48 V rated value	6 A
 at 60 V rated value at 110 V rated value 	6 A 3 A
at 125 V rated value at 125 V rated value	2 A
at 123 V rated value at 220 V rated value	1A
at 600 V rated value	0.15 A
operational current at DC-13	0.1071
• 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 	34 A
at 600 V rated value	27 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	5 hp
• for 3-phase AC motor	40 ha
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	10 hp
— at 460/480 V rated value— at 575/600 V rated value	25 hp 25 hp
contact rating of auxiliary contacts according to UL	25 np A600 / P600
	7,000 / 1 000
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit with type of coordination 1 required.	aC: 125A (600)/ 100kA) aM: 50A (600)/ 100kA) BC00: 125A
 — 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, 80kA) • for short-circuit protection of the auxiliary switch gG: 10 A (500 V, 1 kA) required 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 screw and snap-on mounting onto 35 mm DIN rail according to DIN EN fastening method 60715 • side-by-side mounting Yes heiaht 85 mm width 45 mm 107 mm depth required spacing • with side-by-side mounting - forwards 10 mm 10 mm - upwards downwards 10 mm - at the side 0 mm · for grounded parts 10 mm - forwards — upwards 10 mm 6 mm - at the side — 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 screw-type terminals · at contactor for auxiliary contacts Screw-type terminals · of magnet coil Screw-type terminals

type of connectable conductor cross-sections for main contacts

solid

· solid or stranded • finely stranded with core end processing

connectable conductor cross-section for main contacts

stranded finely stranded with core end processing

connectable conductor cross-section for auxiliary contacts

• finely stranded with core end processing

type of connectable conductor cross-sections

• for auxiliary contacts - solid or stranded

solid or stranded

- finely stranded with core end processing

• at AWG cables for auxiliary contacts

AWG number as coded connectable conductor cross section

• for main contacts • for auxiliary contacts 2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²) 2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)

2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm²

1 ... 10 mm² 1 ... 10 mm² 1 ... 10 mm²

0.5 ... 2.5 mm² 0.5 ... 2.5 mm²

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14)

16 ... 8 20 ... 14

Safety related data product function

solid

• mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920

proportion of dangerous failures

• with low demand rate according to SN 31920 • with high demand rate according to SN 31920 Yes 450 000

40 % 73 %

failure rate [FIT] with low demand rate according to SN

T1 value for proof test interval or service life according to IFC 61508

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

100 FIT

20 a

IP20

finger-safe, for vertical contact from the front

Yes

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination
Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













other

Railway

Dangerous Good

Environment

Confirmation



Vibration and Shock

<u>Transport Information</u>

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2028-1BB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2028-1BB40

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-1BB40

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

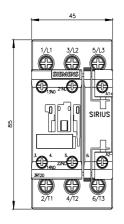
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2028-1BB40&lang=en

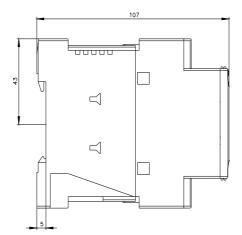
Characteristic: Tripping characteristics, I2t, Let-through current

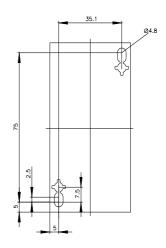
https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-1BB40/char

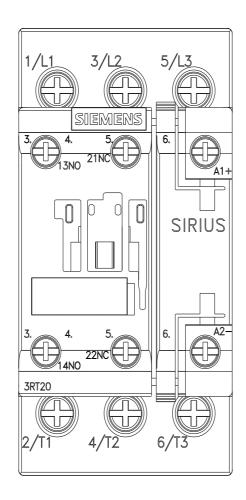
Further characteristics (e.g. electrical endurance, switching frequency)

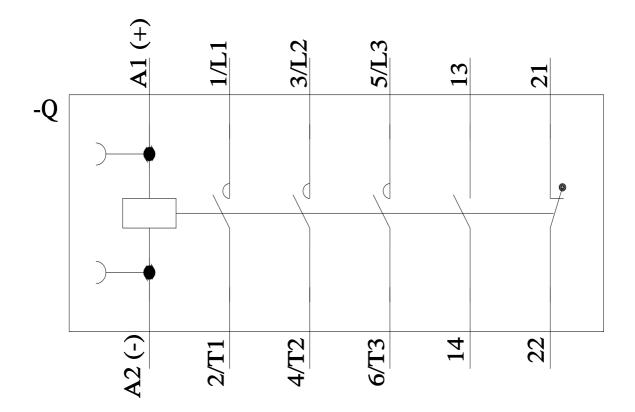
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2028-1BB40&objecttype=14&gridview=view1











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