3RT2028-2FB44-3MA0

Data sheet



Power contactor, AC-3 38 A, 18.5 kW / 400 V 2 NO + 2 NC, 24 V DC with plugged-in diode combination, 3-pole Size S0 Spring type terminal Captive auxiliary switch

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	No
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 (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)	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 	50 A
rated value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	50 A
	42 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-5a up to 400 V rated value	31.5 A
• at AC-5a	01.071
— up to 230 V for current peak value n=20 rated	30.8 A
value	30.0 A
— up to 400 V for current peak value n=20 rated	30.8 A
value	
 up to 500 V for current peak value n=20 rated 	30.8 A
value	
— up to 690 V for current peak value n=20 rated	21 A
value	
• at AC-6a	00.5 A
 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	20.5 A
value	20.07.
— up to 500 V for current peak value n=30 rated	21.4 A
value	
 up to 690 V for current peak value n=30 rated 	21 A
value	40
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	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 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	0.07.
- mai o ourront patrio in ourros at DO-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 110 V rated value	2.5 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 	
— at 24 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— 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 	
— 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-2 at 400 V rated value	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	18.5 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	26.6 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	18.5 kVA
• up to 690 V for current peak value n=30 rated value	25 kVA
short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	593 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	395 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 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 DC	1 500 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
	750 1/h
at AC-3e maximumat AC-4 maximum	750 1/h 250 1/h
Control circuit/ Control	200 1/11
type of voltage of the control supply voltage	DC
control supply voltage at DC	DO .
• rated value	24 V
operating range factor control supply voltage rated	L1 V
value of magnet coil at DC	
• initial value	0.8
full-scale value	1.1
design of the surge suppressor	with diode assemblies
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
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts	2
instantaneous contact	40.0
operational current at AC-12 maximum	10 A
operational current at AC-15 ● at 230 V rated value	6.4
	6 A 3 A
 at 400 V rated value at 500 V rated value 	3 A 2 A
at 500 V rated value 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	6 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	2 ha
— at 110/120 V rated value	3 hp
— at 230 V rated value	5 hp
• for 3-phase AC motor	10 hn
— at 200/208 V rated value	10 hp
— at 220/230 V rated value— at 460/480 V rated value	10 hp
— at 400/400 v Tateu value	25 hp

— with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position • side-by-side mounting • side-by-side mounting • width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side — downwards — at the side — downwards — at the side — downwards — of rive parts — forwards — upwards — for live parts — downwards — downwards — upwards — downwards — at the side — formals type of electrical connection • for main current circuit spring-load spring-load	90V,100kA), aM: 50A (690V,100kA), BS88: 125A
Short-circuit protection design of the fuse link	tion possible on vertical mounting surface; can be tilted backward by +/- 22.5° on vertical mounting surface anap-on mounting onto 35 mm standard mounting rail
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • orwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — to mm • for live parts — forwards — upwards — at the side — downwards — to mm • for live parts — forwards — upwards — at the side — downwards — to mm • for main current circuit • for auxiliary and control circuit • for main current circuit • for main contacts — solid — solid or stranded — finely stranded without core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts	tion possible on vertical mounting surface; can be tilted backward by +/- 22.5° on vertical mounting surface anap-on mounting onto 35 mm standard mounting rail
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mounting position	backward by +/- 22.5° on vertical mounting surface map-on mounting onto 35 mm standard mounting rail
e side-by-side mounting e side-by-side mounting height width depth required spacing ● with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — 10 mm • for live parts — forwards — upwards — at the side — downwards — 10 mm • for live parts — forwards — 10 mm • for live parts — for wards — the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts	nap-on mounting onto 35 mm standard mounting rail
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• for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil **Spring-tyle** **Of magnet coil **Spring-tyle** **Of magnet coil **Spring-tyle**	
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● of magnet coil type of connectable conductor cross-sections ● for main contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing ● at AWG cables for main contacts connectable conductor cross-section for main contacts Spring-type 2x (1 1 2x (1 1 2x (1 6 2x (18 1 2x (18	ed terminals
type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts	terminals
 for main contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — at AWG cables for main contacts connectable conductor cross-section for main contacts 	terminals
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 — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts 2x (1 6 	
 — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts 2x (1 6 	mm²)
 — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts 2x (1 6 	
 — finely stranded without core end processing ● at AWG cables for main contacts 2x (1 6 2x (18 connectable conductor cross-section for main contacts	
• at AWG cables for main contacts 2x (18 connectable conductor cross-section for main contacts	
connectable conductor cross-section for main contacts	
contacts	
• solid 1 10 m	
1 10 111	
• stranded 1 10 m	
• finely stranded with core end processing 1 6 mm	
• finely stranded without core end processing 1 6 mm	
connectable conductor cross-section for auxiliary contacts	
• solid or stranded 0.5 2.5	
• finely stranded with core end processing 0.5 1.5	
• finely stranded without core end processing 0.5 2.5	${\sf m}^2$
type of connectable conductor cross-sections	m^2

for auxiliary contacts

 solid or stranded
 finely stranded with core end processing
 finely stranded without core end processing
 at AWG cables for auxiliary contacts

 AWG number as coded connectable conductor cross section

 for auxiliary contacts 20 ... 14 Safety related data product function • mirror contact according to IEC 60947-4-1 Yes • positively driven operation according to IEC 60947-No 450 000 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 73 % failure rate [FIT] with low demand rate according to SN 100 FIT 31920 T1 value for proof test interval or service life according to 20 y IEC 61508 protection class IP on the front according to IEC IP20 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front suitability for use · safety-related switching OFF Yes

18 ... 8

Certificates/ approvals

General Product Approval

· for main contacts



Confirmation





<u>KC</u>



Functional
Safety/Safety of Machinery

Declaration of Conformity
Test Certificates
Marine / Shipping



Type Examination Certificate





Type Test Certificates/Test Report



Marine / Shipping













other Railway Dangerous Good

Confirmation



Vibration and Shock

<u>Transport Information</u>

Further information

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=3RT2028-2FB44-3MA0

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2028-2FB44-3MA0}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-2FB44-3MA0

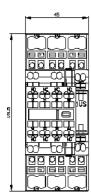
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

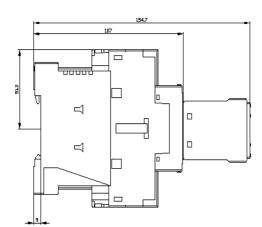
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2028-2FB44-3MA0&lang=en

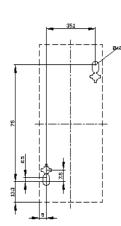
Characteristic: Tripping characteristics, I2t, Let-through current

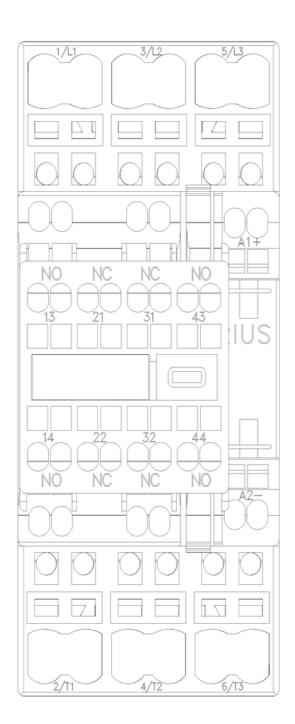
https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-2FB44-3MA0/char

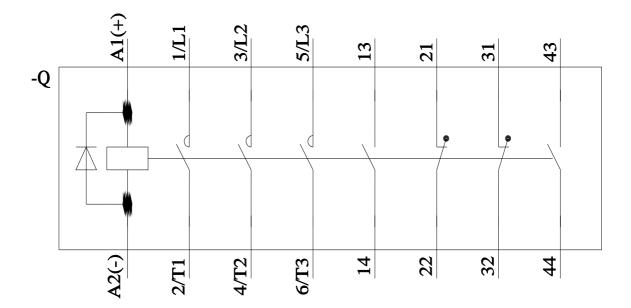
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2028-2FB44-3MA0&objecttype=14&gridview=view1











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