## **Data sheet**

3RT2026-1BB44-3MA0



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S0, captive auxiliary switch, no surge suppressor retrofittable

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	No
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	5.7 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.9 W
without load current share typical	5.9 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	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 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)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	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			
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V		
at AC-3e rated value maximum	690 V		
operational current			
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated</li> </ul>	40 A		
value			
• at AC-1			
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	40 A		
— up to 690 V at ambient temperature 60 °C rated	35 A		
value			
• at AC-3			
— at 400 V rated value	25 A		
— at 500 V rated value	18 A		
— at 690 V rated value	13 A		
• at AC-3e			
— at 400 V rated value	25 A		
— at 500 V rated value	18 A		
— at 690 V rated value	13 A		
• at AC-4 at 400 V rated value	15.5 A		
• at AC-5a up to 690 V rated value	35.2 A		
• at AC-5b up to 400 V rated value	20.7 A		
• at AC-6a			
— up to 230 V for current peak value n=20 rated value	20.2 A		
— up to 400 V for current peak value n=20 rated value	20.2 A		
— up to 500 V for current peak value n=20 rated value	20.2 A		
— up to 690 V for current peak value n=20 rated value	12.9 A		
• at AC-6a			
— up to 230 V for current peak value n=30 rated value	13.5 A		
— up to 400 V for current peak value n=30 rated value	13.5 A		
— up to 500 V for current peak value n=30 rated value	13.5 A		
— up to 690 V for current peak value n=30 rated value	13 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	9 A		
at 690 V rated value	9 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		
<ul><li>with 3 current paths in series at DC-1</li></ul>			
— 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	35 A		
— at 440 V rated value	2.9 A		
— at 600 V rated value	1.4 A		
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>			

at 24 V rated value	20. A
— at 24 V rated value	20 A
— at 60 V rated value	5 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
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 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
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— 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	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	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	11 kW
• at AC-3e	TTWY
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
	11 kW
— at 500 V rated value	
— at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles at AC-	
• at 400 V rated value	4.4 kW
• at 690 V rated value	7.7 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	8 kVA
up to 400 V for current peak value n=20 rated value	13.9 kVA
up to 500 V for current peak value n=20 rated value	17.4 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	15.4 kVA
	IV.T NVA
operating apparent power at AC-6a	5 3 kV/A
up to 230 V for current peak value n=30 rated value	5.3 kVA
up to 400 V for current peak value n=30 rated value	9.3 kVA
up to 500 V for current peak value n=30 rated value	11.6 kVA
up to 690 V for current peak value n=30 rated value	15.5 kVA
short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	375 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 1's switching at zero current maximum     Imited to 5's switching at zero current maximum	300 A; Use minimum cross-section acc. to AC-1 rated value
limited to 3 s switching at zero current maximum     limited to 10 s switching at zero current maximum	210 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum     limited to 30 s switching at zero current maximum	144 A; Use minimum cross-section acc. to AC-1 rated value
-	
Iimited to 60 s switching at zero current maximum  no load switching frequency.	118 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	1.500.1/b
• at DC	1 500 1/h
operating frequency	4 000 4/1
• 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	

time of voltage of the southed souther to	DC	
type of voltage of the control supply voltage	DC	
control supply voltage at DC	24.1/	
rated value     operating range factor control supply voltage rated value of	24 V	
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		
• 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 instantaneous contact	2	
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	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	21 A	
• at 600 V rated value	22 A	
yielded mechanical performance [hp]		
• for single-phase AC motor		
— at 110/120 V rated value	2 hp	
— at 230 V rated value	3 hp	
• for 3-phase AC motor		
— at 200/208 V rated value	5 hp	
— at 220/230 V rated value	7.5 hp	
— at 460/480 V rated value	15 hp	
— at 575/600 V rated value	20 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: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA)	

<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA)	
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)	
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 DIN rail according to DIN EN 60715	
side-by-side mounting	Yes	
height	85 mm	
width	45 mm	
depth	151 mm	
required spacing		
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	screw-type terminals	
for auxiliary and control circuit	screw-type terminals	
at contactor for auxiliary contacts	Screw-type terminals Screw-type terminals	
of magnet coil	Screw-type terminals Screw-type terminals	
type of connectable conductor cross-sections for main contacts	Corew type terminals	
solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)	
solid     solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)	
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²	
connectable conductor cross-section for main contacts	2. ( 1 2.0 Hill ), 2. (2.0 0 Hill ), 1. 10 Hill	
Solid     Solid	1 10 mm²	
solia     stranded	1 10 mm²	
finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts.	1 10 mm²	
connectable conductor cross-section for auxiliary contacts	0.5 2.5 mm²	
solid or stranded     finely stranded with core and processing	0.5 2.5 mm <sup>2</sup>	
finely stranded with core end processing  Aura of correctable conductor areas positions	0.5 2.5 mm <sup>2</sup>	
type of connectable conductor cross-sections		
for auxiliary contacts	0 (0 5 4 5 3) 0 (0 75 0 5 3)	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)	
AWG number as coded connectable conductor cross section		
for main contacts	16 8	
for auxiliary contacts	20 14	
afety related data		
product function		
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes	
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No	
suitability for use safety-related switching OFF	Yes	
B10 value with high demand rate according to SN 31920	450 000	
proportion of dangerous failures		
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %	
with high demand rate according to SN 31920	73 %	

failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	

Certificates/ approvals

**General Product Approval** 





Confirmation



**KC** 



	EMC		Declaration of Conformity	Test Certificates	Marine / Shipping
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Type Examination Cer**tificate** 





Type Test Certificates/Test Report



Marine / Shipping other











Confirmation

other Railway **Dangerous Good Environment** 



Vibration and Shock

**Transport Information** 

**Environmental Confirmations** 

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=3RT2026-1BB44-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-1BB44-3MA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1BB44-3MA0

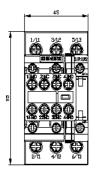
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

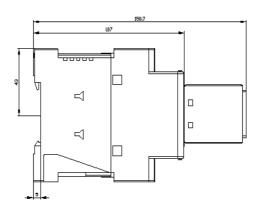
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2026-1BB44-3MA0&lang=en

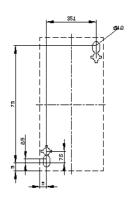
Characteristic: Tripping characteristics, I²t, Let-through current

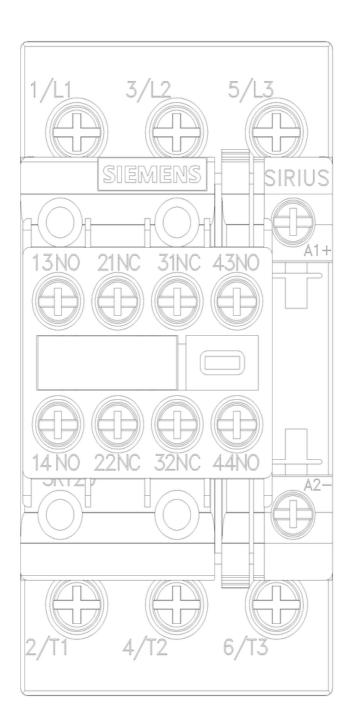
https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1BB44-3MA0/char

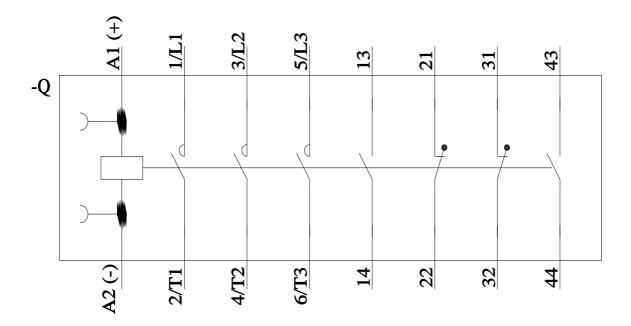
Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-1BB44-3MA0&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-1BB44-3MA0&objecttype=14&gridview=view1</a>











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