3RT2026-2DB44-3MA0

Data sheet



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 24 V DC, with plugged-in varistor, auxiliary contacts: 2 NO + 2 NC, spring-loaded terminal, size: S0, 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 	5.7 W		
 at AC in hot operating state per pole 	1.9 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 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)			
 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		
SVHC substance name	Blei - 7439-92-1		
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 rated	40 A
value	
• at AC-1	40.4
 up to 690 V at ambient temperature 40 °C rated value 	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	10 mm²
value 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
 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
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A

-1.4				
• at 1 current path at DC-3 at DC-5	00 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			
with 2 current paths in series at DC-3 at DC-5	05.4			
— 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			
with 3 current paths in series at DC-3 at DC-5	A A			
— 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	44 124			
• at AC-2 at 400 V rated value	11 kW			
• 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				
— 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			
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			
• up to 690 V for current peak value n=20 rated value	15.4 kVA			
operating apparent power at AC-6a				
• 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			
 limited to 5 s switching at zero current maximum 	300 A; Use minimum cross-section acc. to AC-1 rated value			
 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 	144 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 60 s switching at zero current maximum 	118 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency				
• at DC				
operating frequency	1 500 1/h			
operating frequency	1 500 1/h			
• at AC-1 maximum	1 500 1/h 1 000 1/h			
• at AC-1 maximum	1 000 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	24 V		
magnet coil at DC			
• initial value	0.8		
• full-scale value	1.1		
design of the surge suppressor	with varistor		
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	2		
contact			
number of NO contacts for auxiliary contacts instantaneous	2		
contact	40.0		
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.	~C. 400 A (000 \ / 400 kA) -5M-50 A (000 \ / 400 kA) -5000 400 A (415 \ / 200 kB)
— 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)
 — with type of assignment 2 required 	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	102 mm
width	45 mm
depth	154 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	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
of magnet coil	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 mm²)
 finely stranded without core end processing 	2x (1 6 mm²)
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	
solid or stranded	0.5 2.5 mm²
finely stranded with core end processing	0.5 1.5 mm²
finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 2.5 mm²)
finely stranded with core end processing	2x (0.5 1.5 mm²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 14)
AWG number as coded connectable conductor cross section	
	18 8
 for main contacts 	10 0
for main contactsfor auxiliary contacts	20 14

product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947-5-1 	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	
 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 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
Cartificated approvals	

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>





Type Examination Certificate





Type Test Certificates/Test Report



Marine / Shipping

Marine / Shipping













athau	Pailway	Danmanaua Caad	Environment
other	Raliwav	Dangerous Good	Environment

Confirmation



Vibration and Shock

Transport Information

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=3RT2026-2DB44-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-2DB44-3MA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2DB44-3MA0

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

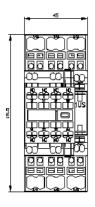
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2026-2DB44-3MA0&lang=en

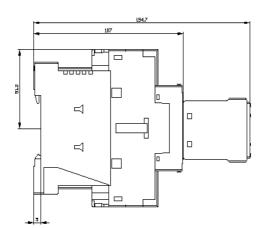
Characteristic: Tripping characteristics, I2t, Let-through current

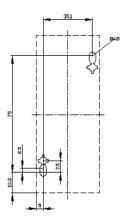
https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2DB44-3MA0/char

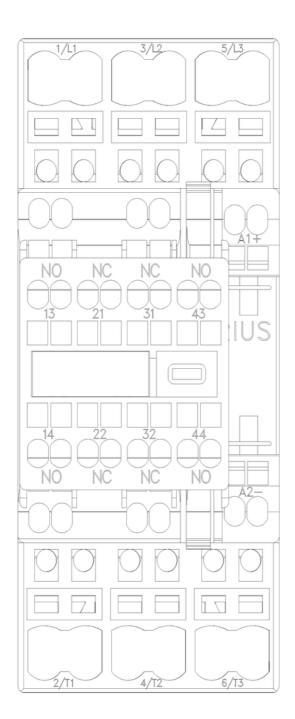
Further characteristics (e.g. electrical endurance, switching frequency)

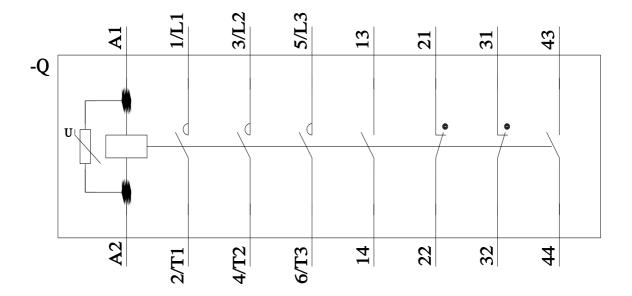
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-2DB44-3MA0&objecttype=14&gridview=view1











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