3RT2024-2FB44-3MA0

Data sheet



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 24 V DC, with plugged-in diode combination, auxiliary contacts: 2 NO + 2 NC, spring-loaded terminal, size: S0, captive auxiliary switch

size of contactor product extension • function module for communication • auxiliary switch • auxiliary switch • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • of auxiliary switch sine pulse • at DC 10g / 5 ms, 7,5g / 10 ms shock resistance with sine pulse • at DC 10g / 5 ms, 10g / 10 ms mechanical service life (operating cycles) • of contactor lypical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added electronically optimized aux	product brand name	SIRIUS
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relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit	during storage	-55 +80 °C
maximum Main circuit	relative humidity minimum	10 %
		95 %
number of poles for main current circuit 3	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	
— up to 690 V at ambient temperature 40 °C rated	40 A
value	05.4
 up to 690 V at ambient temperature 60 °C rated value 	35 A
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
	9 A
— at 690 V rated value	
at AC-4 at 400 V rated value at AC-5 up to 600 V rated value	12.5 A
at AC-5a up to 690 V rated value	35.2 A
at AC-5b up to 400 V rated value	9.9 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	11.4 A
— up to 400 V for current peak value n=20 rated value	11.4 A
 up to 500 V for current peak value n=20 rated value 	11.3 A
 up to 690 V for current peak value n=20 rated value 	9 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	7.6 A
 up to 400 V for current peak value n=30 rated value 	7.6 A
— up to 500 V for current peak value n=30 rated value	7.6 A
 up to 690 V for current peak value n=30 rated value 	7.6 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	5.5 A
• at 690 V rated value	5.5 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 110 V rated value — 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	05.4
— 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
 at 1 current path at DC-3 at DC-5 	

	— 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
with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 290 V rated value — at 490 V rated value — at 500 V rated value — at 490 V rated value — at 500 V rated va	— 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 60 V rated value	35 A
	— at 110 V rated value	15 A
at 600 V rated value	— at 220 V rated value	3 A
- with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value - at 110 V rated value - at 110 V rated value - at 22 V rated value - at 22 V rated value - at 440 V rated value - at 440 V rated value - at 600 V rated value - at 500 V rated value - at 500 V rated value - at 600 V rated value - at 500 V rated value - at 600 V rated value - at 600 V rated value - at 500 V rated value - at 600 V rated value	— 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 	
	·	35 A
at AC-2 at 400 V rated value 5.5 kW at AC-3 at 300 V rated value 5.5 kW at AC-3 at 300 V rated value 5.5 kW at AC-3 at 400 V rated value 5.5 kW at 400 V rated value 5.5 kW at 600 V rated value 5.5 kW at 600 V rated value 5.5 kW at AC-3e at 300 V rated value 5.5 kW at AC-3e at 300 V rated value 5.5 kW at AC-3e at 300 V rated value 5.5 kW at 600 V rated value 5.5 kW at 500 V rated value 5.5 kW at 600 V rated value 5.5 kW at 600 V rated value 5.5 kW at 400 V rated value 6.5 kW at 400 V rated value 4.6 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 4.5 kW at 680 V rated value 4.5 kW operating apparent power at AC-6a up to 400 V for current peak value n=20 rated value 9.8 kVA up to 500 V for current peak value n=20 rated value 9.8 kVA up to 500 V for current peak value n=20 rated value 9.8 kVA up to 500 V for current peak value n=30 rated value 9.8 kVA up to 500 V for current peak value n=30 rated value 5.2 kVA up to 500 V for current peak value n=30 rated value 6.5 kWA up to 500 V for current peak value n=30 rated value 6.5 kWA up to 500 V for current peak value n=30 rated value 6.5 kWA up to 500 V for current peak value n=30 rated value 6.5 kWA up to 500 V for current peak value n=30 rated value 6.5 kWA up to 500 V for current peak value n=30 rated value 6.5 kWA up to 500 V for current peak value n=30 rated value 6.5 kWA up to 500 V for current peak value n=30 rated value 6.5 kWA up to 500 V for current peak value n=30 rated value 6.5 kWA up to 500 V for current peak value n=30 rated value 6.5 kWA up to 500 V for current peak value n=30 rated value 6.5 kWA up to 500 V for current peak value n=30 rated value 6.5 kWA up to 500 V for current peak value n=30 rated value 6.5 kWA up to 500 V for current peak value n=30 rated value 6.5 kWA up to		
at AC-2 at 400 V rated value		
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 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at DC 1 500 1/h at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum 1 000 1/h 1 000 1/h 1 000 1/h 		240 A. Hao minimum areas activity and to A.C. 4 and the
 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at DC 1 500 1/h operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum 1 000 1/h 		
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at DC 1 500 1/h operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum 1 000 1/h 1 000 1/h 1 000 1/h 1 000 1/h 		
 ● limited to 60 s switching at zero current maximum no-load switching frequency ● at DC 1 500 1/h operating frequency ● at AC-1 maximum ● at AC-2 maximum ● at AC-3 maximum 	-	
no-load switching frequency at DC 1 500 1/h operating frequency at AC-1 maximum 1 000 1/h at AC-2 maximum 1 000 1/h at AC-3 maximum 1 000 1/h at AC-3e maximum 1 000 1/h 1 000 1/h	-	
● at DC operating frequency ● at AC-1 maximum at AC-2 maximum ● at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum 1 000 1/h • at AC-3 maximum 1 000 1/h		105 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 1 000 1/h • at AC-3 maximum 1 000 1/h • at AC-3e maximum 1 000 1/h		
 at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3e maximum 1 000 1/h 1 000 1/h 1 000 1/h 		1 500 1/h
 at AC-2 maximum at AC-3 maximum at AC-3e maximum 1 000 1/h 1 000 1/h 		
 at AC-3 maximum at AC-3e maximum 1 000 1/h 1 000 1/h 		
• at AC-3e maximum 1 000 1/h	• at AC-2 maximum	1 000 1/h
	• at AC-3 maximum	1 000 1/h
• at AC-4 maximum 300 1/h	• at AC-3e maximum	1 000 1/h
	• at AC-4 maximum	300 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
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	
• 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 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	1A
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	11 A
at 600 V rated value	11 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
accign or the race min	

for short-circuit protection of the main circuit	
 — with type of coordination 1 required 	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
 — with type of assignment 2 required 	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
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
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	0.5 0.5 mm²
solid or stranded finely stranded with care and processing	0.5 2.5 mm ²
finely stranded with core end processing finely stranded without ears and processing	0.5 1.5 mm²
finely stranded without core end processing type of connectable conductor cross-sections	0.5 2.5 mm²
type of connectable conductor cross-sections • for auxiliary contacts	
for auxiliary contacts — solid or stranded	2v (0.5 2.5 mm²)
Solid or stranded finely stranded with core end processing	2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²)
— finely stranded with core end processing — finely stranded without core end processing	2x (0.5 1.5 mm²)
Inner stranged without core end processing for AWG cables for auxiliary contacts	2x (0.5 2.5 mirr) 2x (20 14)
AWG number as coded connectable conductor cross	EA (EU 17)
section • for main contacts	18 8
- IOI IIIaiii COIIIaCi3	
	20 14
for auxiliary contacts	20 14
	20 14

 positively driven operation according to IEC 60947-5-1 	No
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
suitability for use	
 safety-related switching OFF 	Yes

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



EMC

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

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=3RT2024-2FB44-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2024-2FB44-3MA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-2FB44-3MA0

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

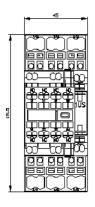
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2024-2FB44-3MA0&lang=en

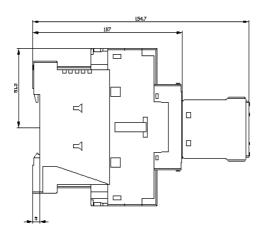
Characteristic: Tripping characteristics, I2t, Let-through current

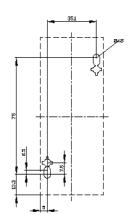
https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-2FB44-3MA0/char

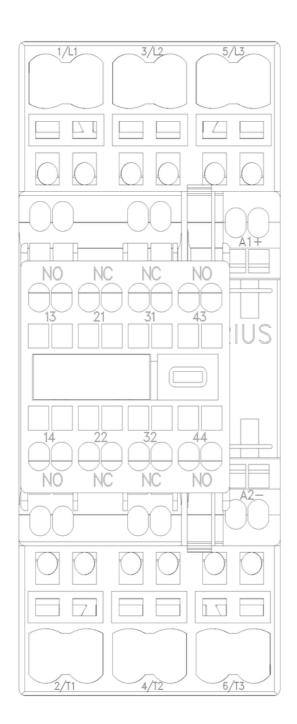
Further characteristics (e.g. electrical endurance, switching frequency)

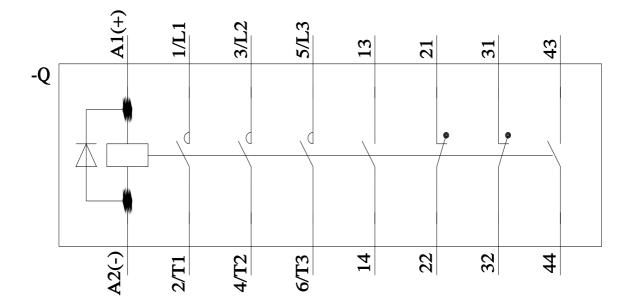
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT2024-2FB44-3MA0\&objecttype=14\&gridview=view1}$











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