3RT2018-1BB44-3MA0

Data sheet



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S00, captive auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
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 	3 W
 at AC in hot operating state per pole 	1 W
without load current share typical	4 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	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at DC	11,4g / 5 ms, 7,3g / 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
690 V
690 V
22 A
22 A
20 A
16 A
12.4 A
8.9 A
16 A
12.4 A
8.9 A
11.5 A
19.4 A
13.2 A
9.6 A
9.6 A
9.6 A
8.9 A
6.6 A
6.4 A
6.4 A
6.4 A
4 mm²
5.5 A
4.4 A
7.7 //
20 A
20 A
2.1 A
2.1 A 0.8 A
2.1 A 0.8 A 0.6 A
2.1 A 0.8 A
2.1 A 0.8 A 0.6 A 0.6 A
2.1 A 0.8 A 0.6 A 0.6 A
2.1 A 0.8 A 0.6 A 0.6 A 20 A
2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A
2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A
2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A
2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A
2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A
2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A
2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A
2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A
2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A 20 A 20 A 20 A 20 A
2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A

— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
 with 2 current paths in series 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	0.35 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power	
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
at 400 V rated value	2.5 kW
at 690 V rated value	3.5 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	3.8 kVA
 up to 400 V for current peak value n=20 rated value 	6.6 kVA
 up to 500 V for current peak value n=20 rated value 	8.3 kVA
up to 690 V for current peak value n=20 rated value	10.6 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	2.5 kVA
 up to 400 V for current peak value n=30 rated value 	4.4 kVA
• up to 500 V for current peak value n=30 rated value	5.5 kVA
up to 690 V for current peak value n=30 rated value	7.6 kVA
short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	300 A; Use minimum cross-section acc. to AC-1 rated value
Ilmitted to 1's switching at zero current maximum Ilmitted to 5's switching at zero current maximum	169 A; Use minimum cross-section acc. to AC-1 rated value
Ilmitted to 3 s switching at zero current maximum Imitted to 10 s switching at zero current maximum	128 A; Use minimum cross-section acc. to AC-1 rated value
Ilmitted to 10 s switching at zero current maximum Ilmitted to 30 s switching at zero current maximum	92 A; Use minimum cross-section acc. to AC-1 rated value
Ilmitted to 50 s switching at zero current maximum Ilmitted to 60 s switching at zero current maximum	74 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	, 550 minimum oroso costion doc. to No Trated value
• at DC	10 000 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
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	27 7
initial value	0.8
Initial value full-scale value	0.8
₹ IUII-SCAIC VAIUC	I.I

alooing newer of magnet sell of DC	AW
closing power of magnet coil at DC holding power of magnet coil at DC	4 W 4 W
closing delay	** VV
• at DC	30 100 ms
opening delay	30 100 IIIS
• at DC	7 13 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	ounday. 7E
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	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 0.1 A
at 600 V rated value contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	readily switching per 100 million (17 V, 1 mz)
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	14 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	5 hp
— at 460/480 V rated value	10 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	
 for short-circuit protection of the main circuit 	
— with type of coordination 1 required	gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (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

width 45 mm depth 117 mm required spacing • with side-by-side mounting — forwards 10 mm — upwards 10 mm • for grounded parts — forwards 10 mm • for grounded parts — the side 6 mm — upwards 10 mm • for wards 10 mm • for grounded parts — forwards 10 mm • at the side 6 mm — downwards 10 mm • for live parts — forwards 10 mm • for live parts — forwards 10 mm • for live parts — downwards 10 mm • for mam current circuit screw-type terminals type of electrical connection • for auxiliary and control circuit screw-type terminals • of magnet coil 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 • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — the side • for grounded parts — upwards — at the side — downwards — at the side — downwards — to mm • for live parts — forwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — upwards — to mm • for mine upwards — to mm • for main current 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	
 with side-by-side mounting — forwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — 10 mm — of mm — upwards — upwards — of mm — of	
forwards 10 mm upwards 10 mm downwards 10 mm downwards 10 mm at the side 0 mm for grounded parts forwards 10 mm upwards 10 mm upwards 10 mm at the side 6 mm downwards 10 mm at the side 10 mm for live parts forwards 10 mm for live parts forwards 10 mm upwards 10 mm upwards 10 mm downwards 10 mm downwards 10 mm at the side 6 mm Connections/ Terminals type of electrical connection for auxiliary and control circuit screw-type terminals at contactor for auxiliary contacts screw-type terminals of magnet coil screw-type terminals to connectable conductor cross-sections for main contacts solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 connectable conductor cross-section for main contacts solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 connectable conductor cross-section for main contacts solid 0.5 4 mm² stranded 0.5 4 mm² finely stranded with core end processing 0.5 2.5 mm²	
- upwards - downwards - at the side • for grounded parts - forwards - upwards - at the side • for grounded parts - forwards - upwards - at the side - downwards - downwards • for live parts - forwards - upwards - upwards - downwards - upwards - downwards - downwards - at the side - downwards - at the side - for main current 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	
- downwards - at the side • for grounded parts - forwards - upwards - at the side • downwards - at the side - downwards - at the side - downwards • for live parts - forwards - upwards - for live parts - forwards - upwards - downwards - 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	
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- forwards - upwards - at the side - downwards - for live parts - forwards - upwards - for live parts - forwards - upwards - upwards - upwards - upwards - downwards - at the side - downwards - at the side - for main current circuit - for main current circuit - for auxiliary and control circuit - at contactor for auxiliary contacts - of magnet coil - screw-type terminals - type of connectable conductor cross-sections for main contacts - solid - solid - solid - 2x (0.5 1.5 mm²), 2x (0.75 2.5 connectable conductor cross-section for main contacts - solid - stranded - 0.5 4 mm² - stranded - stranded - 0.5 2.5 mm² - 2.	
- upwards - at the side - downwards 10 mm • for live parts - forwards - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current 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 10 mm 10 mm 6 mm Connections/ 6 mm Connections/ 6 mm Connections/ 7 terminals 8 screw-type terminals 9 Screw-type termin	
- at the side - downwards • for live parts - forwards - upwards - upwards - downwards - at the side - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • at contactor 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 • solid or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • stranded • stranded • stranded • finely stranded with core end processing of main contacts • solid of main c	
- downwards • for live parts - forwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current 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	
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forwards upwards downwards at the side Connections/ Terminals type of electrical connection • for main current 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 • solid or stranded • finely stranded with core end processing • solid • stranded • stranded • stranded • stranded • finely stranded with core end processing	
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— downwards — at the side Connections/ Terminals type of electrical connection • for main current 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 connectable conductor cross-section for main contacts • solid • stranded • stranded • finely stranded with core end processing output 10 mm 6 mm 2crew-type terminals Screw-type terminals Screw-type terminals 2crew-type terminals	
— at the side Connections/ Terminals type of electrical connection • for main current 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 • solid • stranded • stranded • finely stranded with core end processing • finely stranded with core end processing • solid • stranded • stranded • finely stranded with core end processing • solid • stranded • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • stranded • finely stranded with core end processing • solid • stranded • stranded • finely stranded with core end processing • solid • stranded • stranded • finely stranded with core end processing	
type of electrical connection • for main current 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 • solid or stranded with core end processing connectable conductor cross-section for main contacts • solid • solid • solid • finely stranded with core end processing connectable conductor cross-section for main contacts • solid	
type of electrical connection • for main current 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 • stranded • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing	
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 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 solid solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing 5 4 mm² 5 4 mm² 6.5 4 mm² 7.5 2.5 mm² 7.5 2.5 mm² 	
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 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 solid or stranded or stranded or stranded or solid or stranded or solid or stranded or solid or stranded or solid or stranded o	
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connectable conductor cross-section for main contacts ● solid ● stranded ● stranded ● finely stranded with core end processing 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm²	·
 solid stranded finely stranded with core end processing 0.5 4 mm² 0.5 2.5 mm² 	o mm²)
 stranded finely stranded with core end processing 0.5 4 mm² 0.5 2.5 mm² 	
• finely stranded with core end processing 0.5 2.5 mm²	
· , · · · · · · · · · · · · · · · · · ·	
connectable conductor cross-section for advinary contacts	
• solid or stranded 0.5 4 mm ²	
• finely stranded with core end processing 0.5 2.5 mm²	
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5	5 mm²), 2x 4 mm²
— finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5	5 mm²)
• for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12	
AWG number as coded connectable conductor cross	
section	
• for main contacts 20 12	
• for auxiliary contacts 20 12	
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 No 	
B10 value with high demand rate according to SN 31920 1 000 000	
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 front	
suitability for use	n the front
• safety-related switching OFF Yes	n the front
Certificates/ approvals	n the front



Confirmation





<u>KC</u>



EMC Safety/Safety of Machinery **Declaration of Conformity**

Test Certificates



Type Examination Certificate

Functional





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













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=3RT2018-1BB44-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-1BB44-3MA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1BB44-3MA0

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

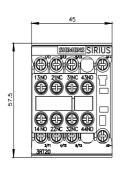
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2018-1BB44-3MA0&lang=en

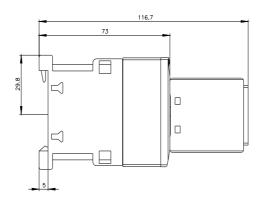
Characteristic: Tripping characteristics, I2t, Let-through current

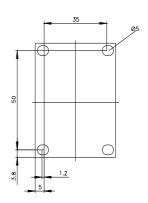
https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1BB44-3MA0/char

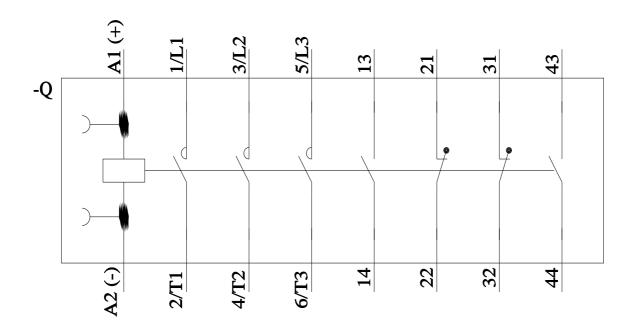
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2018-1BB44-3MA0&objecttype=14&gridview=view1









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