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
type of calculation of power loss depending on pole	quadratic
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)	
Weight	0.34 kg
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 %

Environmental Footprint Environmental Footprint Environmental Footprint Environmental Footprint Environmental Footprint Global Warming Potential (CO2 eq) duting manufacturing Global Warming Potential (CO2 eq) duting operation 152 kg Global Warming Potential (CO2 eq) after end of life -0.305 kg Main circuit number of poles for main current circuit 3 number of NO contacts for main contacts 3 operating voltage • at AC-3 a 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 value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value • at AC-3 — at 400 V at ambient temperature 60 °C rated value • at AC-3 — at 400 V rated value • at AC-3 — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-5a up to 690 V rated value • at AC-5a up to 690 V rated value • at AC-5a up to 600 V rated value • at AC-5b up to 400 V rated value • at AC-6a — up to 500 V for current peak value n=20 rated value • at AC-6a — up to 500 V for current peak value n=20 rated value • at AC-6a — up to 500 V for current peak value n=20 rated value • at AC-6a — up to 500 V for current peak value n=30 rated value • at AC-6a — up to 500 V for current peak value n=30 rated value • at AC-6a — up to 500 V for current peak value n=30 rated value • at AC-6a — up to 500 V for current peak value n=30 rated value • at AC-6a — up to 500 V for current peak value n=30 rated value • at AC-6a — up to 500 V for current peak value n=30 rated value • at AC-6a — up to 500 V for current peak value n=30 rated value • at AC-6a — up to 500 V for current peak value n=30 rated value • at AC-6a — up to 500
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Global Warming Potential (CO2 eq) during manufacturing
Global Warming Potential (CO2 eq) during operation Global Warming Potential (CO2 eq) after end of life -0.305 kg Main circuit number of Poles for main current circuit 3 number of NO contacts for main contacts operating voltage • at AC-3 rated value maximum operational current • at AC-1 at 400 V at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value • at AC-3 — at 400 V at ambient temperature 60 °C rated value • at AC-3 — at 400 V rated value • at AC-3 — at 400 V rated value • at AC-3 — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e • at 4C-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3 at yo to 960 V rated value • at AC-3 at yo to 960 V rated value • at AC-3 at yo to 960 V rated value • at AC-3a up to 960 V rated value • at AC-5a • at AC-5a • at AC-6a — up to 230 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — u
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- at 500 V rated value - at 690 V rated value • at AC-3e - at 400 V rated value - at 500 V rated value - at 690 V rated value - at AC-4 at 400 V rated value - at AC-5a up to 690 V rated value - at AC-5a up to 690 V rated value - at AC-5b up to 400 V rated value - at AC-6a - up to 230 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value
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- at 500 V rated value - at 690 V rated value 8.9 A • at AC-4 at 400 V rated value 11.5 A • at AC-5a up to 690 V rated value 19.4 A • at AC-5b up to 400 V rated value 13.2 A • at AC-6a - up to 230 V for current peak value n=20 rated value - up to 400 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value • at AC-6a - up to 230 V for current peak value n=20 rated value - up to 690 V for current peak value n=30 rated value • at AC-6a - up to 400 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value
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 — up to 500 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value ● at AC-6a — up to 230 V for current peak value n=30 rated value — up to 400 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value
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— up to 690 V for current peak value n=30 rated value 6.4 A minimum cross-section in main circuit at maximum AC-1 rated 4 mm²
minimum cross-section in main circuit at maximum AC-1 rated 4 mm²
value
operational current for approx. 200000 operating cycles at AC-4
• at 400 V rated value 5.5 A
at 690 V rated value 4.4 A
operational current
• at 1 current path at DC-1
— at 24 V rated value 20 A
— at 60 V rated value 20 A
— at 110 V rated value 2.1 A
— at 220 V rated value 0.8 A
— at 440 V rated value 0.6 A
— at 600 V rated value 0.6 A
with 2 current paths in series at DC-1 20 A
— at 24 V rated value— at 60 V rated value20 A20 A
— at 10 V rated value 20 A — at 110 V rated value 12 A
— at 220 V rated value 1.6 A
— at 440 V rated value 0.8 A
— at 600 V rated value 0.7 A

with 2 comment maths in source at DC 4	
with 3 current paths in series at DC-1	00.4
— 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	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
• at 1 current path at DC-3 at DC-5	00.4
— 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	00.4
— 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	00.4
— 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	A LAM
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value — at 690 V rated value	7.5 kW 7.5 kW
at AC-3e	7.5 KVV
— 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 — at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-	7.5 KVV
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
 limited to 5 s switching at zero current maximum 	169 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	128 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	92 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	74 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
- at AC 2 magazineum	750.44
at AC-2 maximum	750 1/h
at AC-2 maximum at AC-3 maximum	750 1/h

• at AC-4 maximum	250 1/h
Control circuit/ Control	
	DC
type of voltage of the control supply voltage	24 V
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
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	7 40
• at DC	7 13 ms 10 15 ms
arcing time control version of the switch operating mechanism	Standard A1 - A2
	Standard A1 - A2
Auxiliary circuit	on the front, non detachable
design of the auxiliary switch number of NC contacts for auxiliary contacts instantaneous	on the front, non-detachable
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	40.4
at 48 V rated value at 48 V rated value	10 A
at 48 V rated value at 60 V rated value	6 A
at 110 V rated value	6 A
at 110 V rated value at 125 V rated value	3 A 2 A
at 125 V rated value at 220 V rated value	1 A
at 220 V rated valueat 600 V rated value	1 A 0.15 A
operational current at DC-13	V. IV A
at 24 V rated value	6 A
at 24 V rated value at 48 V rated value	2 A
at 40 V rated value at 60 V rated value	2 A
at 100 V rated value at 110 V rated value	1A
at 110 V lated value at 125 V rated value	0.9 A
at 125 V rated value at 220 V rated value	0.9 A 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	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
height	58 mm
width	45 mm
depth	117 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	40
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side Connections/ Terminals	6 mm
type of electrical connection • for main current circuit	corous tuno terminale
	screw-type terminals
 for auxiliary and control circuit at contactor for auxiliary contacts 	screw-type terminals Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	Colon type terminale
• for main contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
• for AWG cables for main contacts	2x (20 16), 2x (18 14), 2x 12
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
connectable conductor cross-section for auxiliary contacts	
• solid or stranded	0.5 4 mm²
 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 mm²), 2x 4 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), 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 	Yes
 positively driven operation according to IEC 60947-5-1 	No
suitable for safety function suitability for use safety-related switching OFF	Yes Yes

service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
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
Approvals Certificates	

General Product Approval





Confirmation





<u>KC</u>

General Product Approval

EMV

Functional Saftey

Test Certificates

Marine / Shipping





Type Examination Certificate

Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping











Miscellaneous

other

other

Railway

Dangerous goods

Environment

Confirmation

Special Test Certificate

Transport Information



Environmental Confirmations

Further information

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, ...)

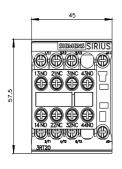
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2018-1BB44-3MA0\&lang=enderself.}}$

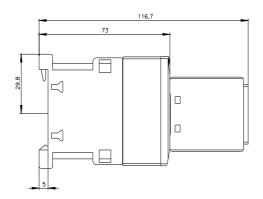
 $\label{eq:Characteristic:Tripping characteristics, I^2t, Let-through current} \end{substitute}$

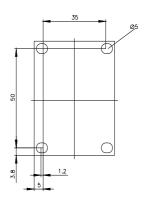
https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1BB44-3MA0/char

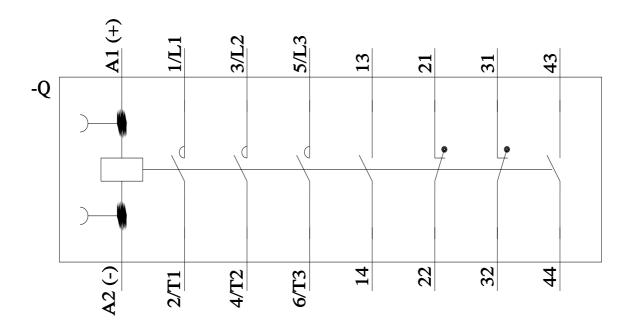
Further characteristics (e.g. electrical endurance, switching frequency)

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









last modified:

