## SIEMENS

## Data sheet

## 3RT2016-2BB44-3MA0



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 2 NO + 2 NC, spring-loaded terminal, size: S00, captive auxiliary switch

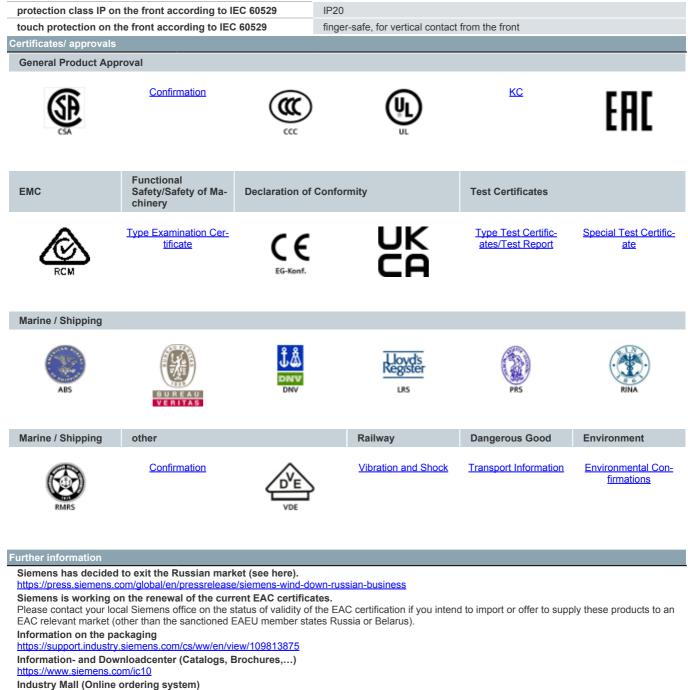
product brand name         SIRUS           product designation         Power contactor           product type designation         3RT2           chernal technical data         S00           groduct extension         S00           • function module for communication         No           • auxiliary switch         No           power loss [W] for rated value of the current         -           • at AC in hot operating state         0.9 W           • at AC in hot operating state per pole         0.3 W           • without load current share typical         4W           insultator voltage         -           • of main circuit with degree of pollution 3 rated value         690 V           • of main circuit with degree of pollution 3 rated value         690 V           • of main circuit rated value         690 V           • of main circuit rated value         690 V           • of main circuit rated value         690 V           • of auxiliary circuit rated value         6 kV           • of main circuit rated value         6 kV           • of maxiliary circuit rated value <t< th=""></t<>
product type designation       3RT2         General technical data       S00         size of contactor       S00         product extension       No         • function module for communication       No         • auxiliary switch       No         power loss [W] for rated value of the current       0.9 W         • at AC in hot operating state       0.9 W         • at AC in hot operating state per pole       0.3 W         • without load current share typical       4 W         Insulation voltage       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit rated value       640 V         • of auxiliary circuit rated value       6kV         maximum permissible voltage for protective separation between coil and main contacts according to EN 80947-1       400 V         shock resistance at rectangular impulse       6,7g / 5 ms, 4,2g / 10 ms         • at DC       6,7g / 5 ms, 6,6g / 10 ms         shock resistance life (operating cycles)       10 000 000         • of nechanical service life (operating cycles)       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5000 000
General technical data       S00         size of contactor       S00         product extension <ul> <li>function module for communication</li> <li>No</li> <li>auxiliary switch</li> <li>No</li> </ul> power loss [W] for rated value of the current       0.9 W         at AC in hot operating state       0.9 W         at AC in hot operating state per pole       0.3 W         without load current share typical       4 W         insulation voltage       690 V         of main circuit with degree of pollution 3 rated value       690 V         of main circuit with degree of pollution 3 rated value       690 V         of main circuit rated value       690 V         of main circuit rated value       64 kV         of auxiliary circuit rated value       64 kV         shock resistance at rectangular impulse       67g / 5 ms, 4,2g / 10 ms         shock resistance with sine pulse       67g / 5 ms, 6,6g / 10 ms         at DC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       10 000 000         of the contactor with added electronically
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     0.9 W       • at AC in hot operating state per pole     0.3 W       • without load current share typical     4 W       insulation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     690 V       • of main circuit rated value     64 V       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • at DC     6.7g / 5 ms, 4,2g / 10 ms       shock resistance with sine pulse     10,5g / 5 ms, 6,6g / 10 ms       • at DC     10,5g / 5 ms, 6,6g / 10 ms       • of the contactor with added electronically optimized auxiliary switch block typical     5 000 000
product extension         No           • function module for communication         No           • auxiliary switch         No           power loss [W] for rated value of the current         No           • at AC in hot operating state         0.9 W           • at AC in hot operating state per pole         0.3 W           • without load current share typical         4 W           insulation voltage         690 V           • of main circuit with degree of pollution 3 rated value         690 V           • of main circuit with degree of pollution 3 rated value         690 V           • of main circuit rated value         64 kV           • of main circuit rated value         64 kV           • of main circuit rated value         6 kV           • of auxiliary circuit rated value         6 kV
• function module for communicationNo• auxiliary switchNopower loss [W] for rated value of the current
• auxiliary switchNopower loss [W] for rated value of the current
power loss [W] for rated value of the current       0.9 W         at AC in hot operating state per pole       0.3 W         at AC in hot operating state per pole       0.3 W         without load current share typical       4 W         insulation voltage       690 V         of main circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6 kV         of main circuit rated value       6 kV         of auxiliary circuit rated value       10 00 000         shock resistance at rectangular impulse       6 (.7g / 5 ms, 6.6g / 10 ms         with block typical       10 000 000         of contactor typical       5 000 000
• at AC in hot operating state0.9 W• at AC in hot operating state per pole0.3 W• without load current share typical4 Winsulation voltage690 V• of main circuit with degree of pollution 3 rated value690 V• of auxiliary circuit with degree of pollution 3 rated value690 V• of main circuit rated value6 kV• of auxiliary circuit rated value6 kV• of contacte at rectangular impulse6 kV• at DC10.5g / 5 ms, 4.2g / 10 ms• at DC10.5g / 5 ms, 6,6g / 10 ms• at DC10.000 000• of contactor with added electronically optimized auxiliary switch block typical5 000 000
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maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse <ul> <li>at DC</li> <li>6,7g / 5 ms, 4,2g / 10 ms</li> </ul> 6,7g / 5 ms, 4,2g / 10 ms         shock resistance with sine pulse <ul> <li>at DC</li> <li>10,5g / 5 ms, 6,6g / 10 ms</li> </ul> 10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles) <ul> <li>of contactor typical</li> <li>000000</li> <li>5 000 000</li> </ul> 10 000 000
coil and main contacts according to EN 60947-1         shock resistance at rectangular impulse <ul> <li>at DC</li> <li>6,7g / 5 ms, 4,2g / 10 ms</li> </ul> shock resistance with sine pulse <ul> <li>at DC</li> <li>10,5g / 5 ms, 6,6g / 10 ms</li> </ul> mechanical service life (operating cycles) <ul> <li>of contactor typical</li> <li>10 000 000</li> <li>5 000 000</li> </ul>
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mechanical service life (operating cycles)     10 000 000       • of contactor typical     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     5 000 000
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of the contactor with added electronically optimized 5 000 000 auxiliary switch block typical
auxiliary switch block typical
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 95 % maximum
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
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated	20 A
value	
● at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
at AC-4 at 400 V rated value	8.5 A
at AC-5a up to 690 V rated value	19.4 A
• at AC-5b up to 400 V rated value	7.4 A
• at AC-6a	5.2.4
— up to 230 V for current peak value n=20 rated value	5.3 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	5.3 A 5.3 A
— up to 500 V for current peak value n=20 rated value	5.5 A
• at AC-6a	54
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	3.5 A
— up to 200 V for current peak value n=30 rated value	3.5 A
— up to 500 V for current peak value n=30 rated value	3.6 A
— up to 690 V for current peak value n=30 rated value	3.3 A
minimum cross-section in main circuit at maximum AC-1 rated	4 mm <sup>2</sup>
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	4.1 A
at 690 V rated value	3.3 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	
— at 24 V rated value	20 A
— at 60 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
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— 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
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— 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	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	2 kW
• at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	2 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	3.6 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	4.6 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	5.9 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	1.3 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	2.4 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	3.1 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	4 kVA
short-time withstand current in cold operating state up to	
40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	155 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	111 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	86 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	66 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	55 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 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	
• 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	
● at DC	7 13 ms
arcing time	10 15 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	
<ul> <li>at 230 V rated value</li> </ul>	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
<ul> <li>at 220 V rated value</li> </ul>	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	7.6 A
• at 600 V rated value	9 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
• for 3-phase AC motor	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— with type of coordination 1 required	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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
- olde by olde meaning	

height	70 mm
width	45 mm
depth	121 mm
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required spacing	
with side-by-side mounting	10 man
— 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
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals
<ul> <li>of magnet coil</li> </ul>	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 4 mm²)
<ul> <li>solid or stranded</li> </ul>	2x (0,5 4 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
• stranded	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
<ul> <li>finely stranded with ore end processing</li> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
connectable conductor cross-section for auxiliary contacts	0.0 2.0 mm
solid or stranded	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
	0.5 2.5 mm
type of connectable conductor cross-sections	
for auxiliary contacts	$2 \times (0.5 - 4 \text{ mm}^2)$
— solid or stranded	2x (0,5 4 mm <sup>2</sup> )
— finely stranded with core end processing	2x (0.5 2.5 mm <sup>2</sup> )
— finely stranded without core end processing	2x (0.5 2.5 mm <sup>2</sup> )
for AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross section	
for main contacts	20 12
	20 12 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
suitability for use safety-related switching OFF	Yes
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	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	20 a
61508	



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Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-2BB44-3MA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2BB44-3MA0

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

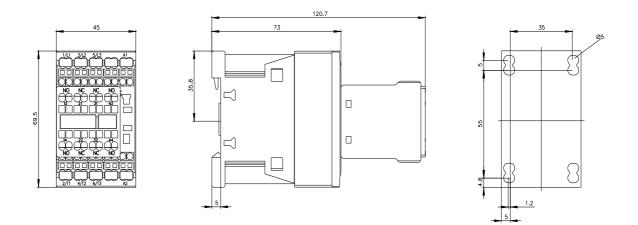
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2016-2BB44-3MA0&lang=en

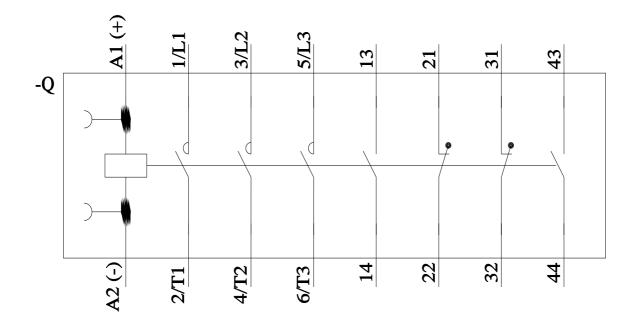
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2BB44-3MA0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-2BB44-3MA0&objecttype=14&gridview=view1





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