## SIEMENS

## Data sheet

## 3RT2316-2BB40

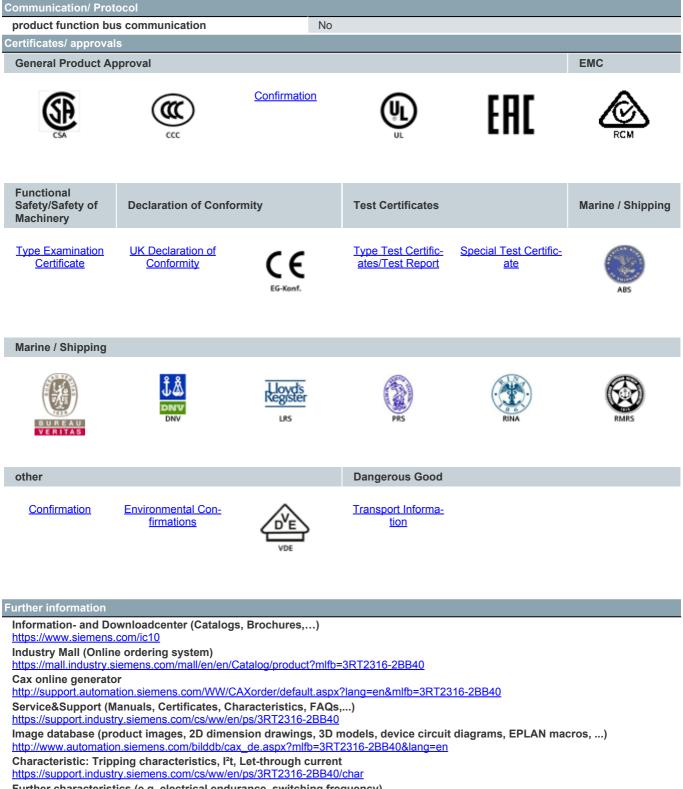


Contactor, AC-1, 18 A/400 V/40  $^\circ\text{C},$  S00, 4-pole, 24 V DC, Spring-type terminal

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	
size of contactor	S00
product extension	
<ul> <li>function module for communication</li> </ul>	No
<ul> <li>auxiliary switch</li> </ul>	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	4.4 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.1 W
<ul> <li>without load current share typical</li> </ul>	4 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of the auxiliary and control circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
shock resistance at rectangular impulse	
• at DC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-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	4
number of NO contacts for main contacts	4

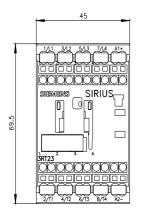
anavational aureant	
operational current	40.4
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	18 A
at AC-1	
	10.4
— up to 690 V at ambient temperature 40 °C rated value	18 A
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-3	
— at 400 V rated value	9 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	8.5 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm <sup>2</sup>
operating power	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	4 kW
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	4 kW
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>	Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	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
Control circuit/ Control	
	DC
type of voltage	
type of voltage of the control supply voltage	DC
control supply voltage at DC	24.1/
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
	50 100 III6
opening delay	7 12 mg
• 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	
attachable	2
number of NO contacts for auxiliary contacts	
attachable	2
Short-circuit protection	
product function short circuit protection	No
design of the fuse link	
for short-circuit protection of the main circuit	
- with type of coordination 1 required	gG: 35 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 20 A (690 V, 100 kA)
	<b>o ( )</b>
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (690 V, 1 kA)
Installation/ mounting/ dimensions	
	+/ 190° rotation possible on vertical mounting surfaces can be tilted
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 standard mounting rail
	according to DIN EN 60715
<ul> <li>side-by-side mounting</li> </ul>	Yes
· · ·	

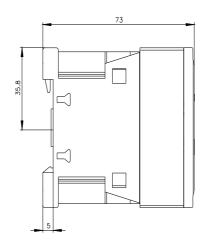
height         70 mm           width         45 mm           depth         73 mm           required spacing         73 mm           • with side-by-side mounting         10 mm           - forwards         10 mm           - downwards         10 mm           - at the side         6 mm           for auxiliary and control circuit         spring-loaded terminals           if or main current circuit         spring-loaded ter	
depth     73 mm       required spacing     • with side b-yside mounting       - forwards     10 mm       - downwards     10 mm       - at the side     0 mm       - forwards     10 mm       - at the side     0 mm       - forwards     10 mm       - at the side     0 mm       - at the side     6 mm       - downwards     10 mm       - forwards     10 mm       - downwards     10 mm       - forwards     10 mm       - forwards     10 mm       - downwards     10 mm       - forwards     10 mm       - downwards     10 mm       - forwards     10 mm       - forwards     10 mm       - forwards     10 mm       - forwards     10 mm       - downwards     50 mm       - forwards     10 mm       - forwards <td></td>	
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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         • finely stranded without core end processing       0.5 2.5 mm²         • for auxiliary contacts       0.5 2.5 mm²         • for auxiliary contacts       - solid         - solid or stranded       2x (0.5 2.5 mm²)         - solid or stranded       2x (0.5 2.5 mm²)         - finely stranded with core end processing       2x (0.5 2.5 mm²)	
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• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• type of connectable conductor cross-sections-• for auxiliary contacts solid2x (0.5 2.5 mm²)- solid or stranded2x (0.5 4 mm²)- finely stranded with core end processing2x (0.5 2.5 mm²)	
• finely stranded without core end processing       0.5 2.5 mm²         type of connectable conductor cross-sections       •         • for auxiliary contacts       -         - solid       2x (0.5 2.5 mm²)         - solid or stranded       2x (0,5 4 mm²)         - finely stranded with core end processing       2x (0.5 2.5 mm²)	
type of connectable conductor cross-sections         • for auxiliary contacts         - solid       2x (0.5 2.5 mm²)         - solid or stranded       2x (0,5 4 mm²)         - finely stranded with core end processing       2x (0.5 2.5 mm²)	
<ul> <li>for auxiliary contacts</li> <li>solid</li> <li>2x (0.5 2.5 mm<sup>2</sup>)</li> <li>solid or stranded</li> <li>2x (0,5 4 mm<sup>2</sup>)</li> <li>finely stranded with core end processing</li> <li>2x (0.5 2.5 mm<sup>2</sup>)</li> </ul>	
solid $2x (0.5 \dots 2.5 \text{ mm}^2)$ solid or stranded $2x (0,5 \dots 4 \text{ mm}^2)$ finely stranded with core end processing $2x (0.5 \dots 2.5 \text{ mm}^2)$	
— solid or stranded2x (0,5 4 mm²)— finely stranded with core end processing2x (0.5 2.5 mm²)	
<ul> <li>finely stranded with core end processing</li> <li>2x (0.5 2.5 mm<sup>2</sup>)</li> </ul>	
<ul> <li>finely stranded without core end processing</li> <li>2x (0.5 2.5 mm<sup>2</sup>)</li> </ul>	
• at 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; with 3RH29	
protection class IP on the front according to IEC IP20	
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	

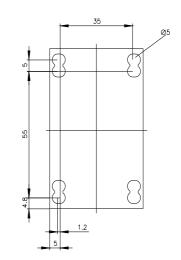


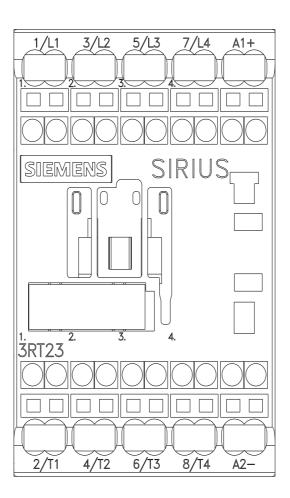
Further characteristics (e.g. electrical endurance, switching frequency)

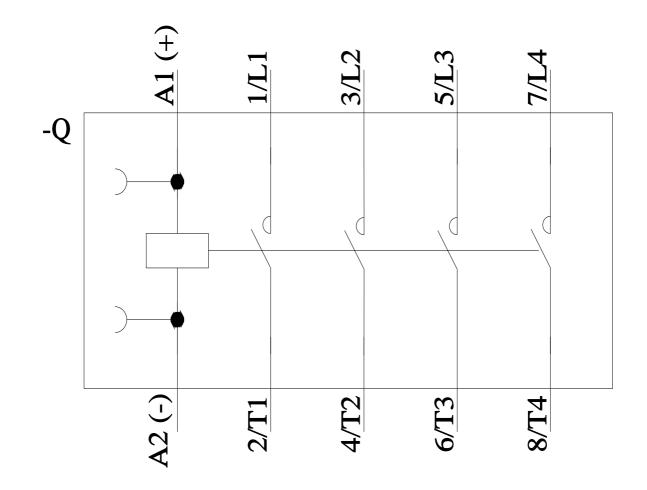
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