SIEMENS

Data sheet

3RT2316-2BB40

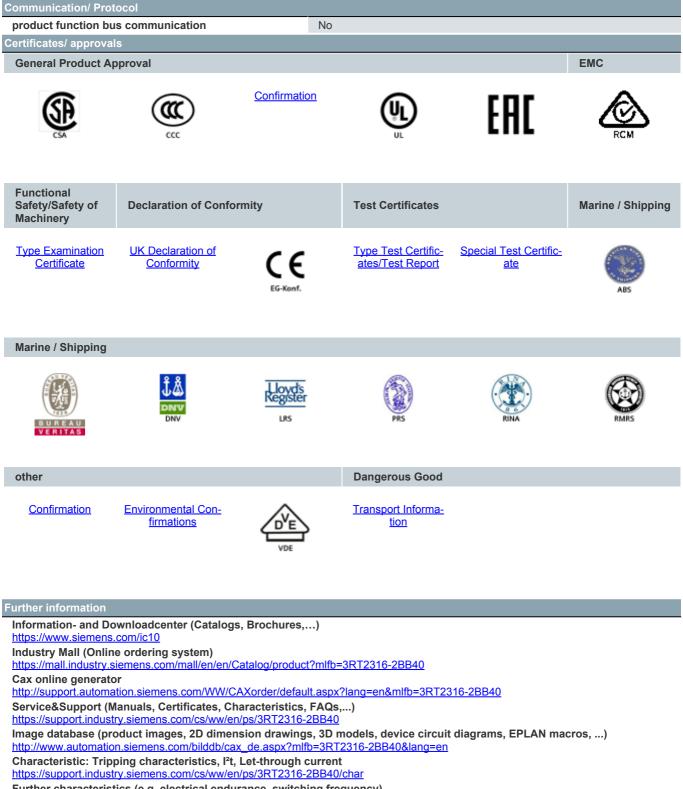


Contactor, AC-1, 18 A/400 V/40 $^\circ\text{C},$ S00, 4-pole, 24 V DC, Spring-type terminal

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
 auxiliary switch 	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	4.4 W
 at AC in hot operating state per pole 	1.1 W
 without load current share typical 	4 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of the auxiliary and control 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
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)	
 of contactor typical 	30 000 000
 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	4
number of NO contacts for main contacts	4

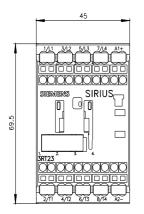
anavational aureant	
operational current	40.4
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	18 A
at AC-1	
	10.4
— up to 690 V at ambient temperature 40 °C rated value	18 A
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-3	
— at 400 V rated value	9 A
 at AC-4 at 400 V rated value 	8.5 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm ²
operating power	
 at AC-3 at 400 V rated value 	4 kW
 at AC-4 at 400 V rated value 	4 kW
short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	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)
	o ()
 for short-circuit protection of the auxiliary switch required 	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
 side-by-side mounting 	Yes
· · ·	

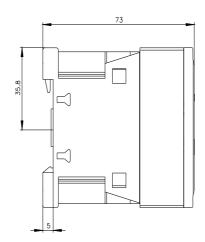
height 70 mm width 45 mm depth 73 mm required spacing 73 mm • with side-by-side mounting 10 mm - forwards 10 mm - downwards 10 mm - at the side 6 mm for auxiliary and control circuit spring-loaded terminals if or main current circuit spring-loaded ter	
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• finely stranded without core end processing0.5 2.5 mm²connectable conductor cross-section for auxiliary contacts0.5 2.5 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• for auxiliary contacts0.5 2.5 mm²• for auxiliary contacts2x (0.5 2.5 mm²)- solid or stranded2x (0.5 2.5 mm²)- solid or stranded with core end processing2x (0.5 2.5 mm²)- finely stranded with core end processing2x (0.5 2.5 mm²)	
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• 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)	
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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)	
 finely stranded with core end processing 2x (0.5 2.5 mm²) 	
 finely stranded without core end processing 2x (0.5 2.5 mm²) 	
• 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	

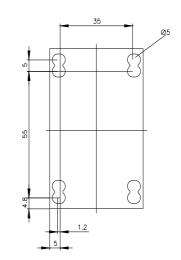


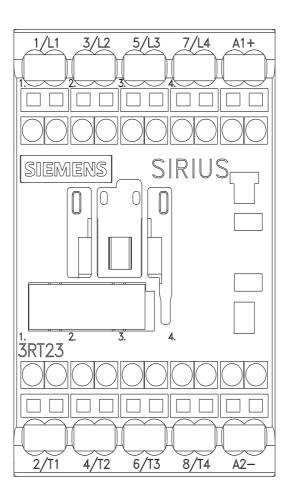
Further characteristics (e.g. electrical endurance, switching frequency)

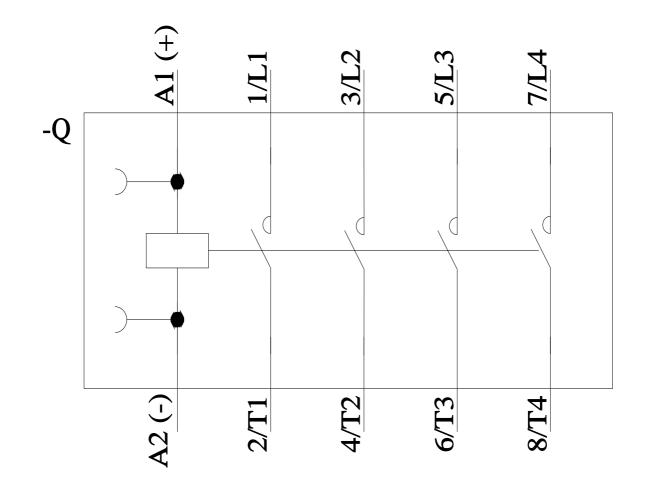
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