## SIEMENS

## Data sheet

## 3RT2317-1BB40



contactor AC-1, 22 A, 400 V / 40 °C, 4-pole, 24 V DC, screw terminal, size: S00

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
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	6.4 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.6 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</li> <li>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	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)	
<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
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated</li> </ul>	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	12 A
• at AC-4 at 400 V rated value	8.5 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm <sup>2</sup>
operating power	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	5.5 kW
• at AC-4 at 400 V rated value	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	
type of voltage	DC
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 <ul> <li>initial value</li> </ul>	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	- 11
• 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	
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	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
- 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)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (690 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
height	58 mm
width	45 mm
depth	73 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	· min			
<ul> <li>forwards</li> </ul>	10 mm			
	10 mm			
— upwards				
— at the side	6 mm			
— downwards	10 mm			
• for live parts	10			
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	6 mm			
Connections/ Terminals				
type of electrical connection				
for main current circuit	screw-type terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals			
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals			
of magnet coil	Screw-type terminals			
type of connectable conductor cross-sections for main contacts				
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²			
<ul> <li>solid or stranded</li> </ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
connectable conductor cross-section for main contacts				
• solid	0.5 4 mm²			
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm²			
stranded	0.5 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²			
connectable conductor cross-section for auxiliary contacts				
solid or stranded	0.5 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²			
type of connectable conductor cross-sections				
<ul> <li>for auxiliary contacts</li> </ul>				
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
— solid or stranded	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>			
— finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )			
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	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			
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 from the front			
Communication/ Protocol				
product function bus communication	No			
Certificates/ approvals				
General Product Approval	EMC			
	<u> </u>			
CSA CCC				

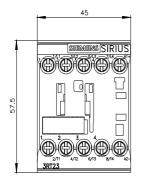
Subject to change without notice © Copyright Siemens

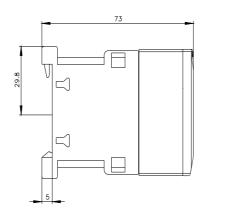
Safety/Safety of Ma- chinery					
<u>Type Examination Cer-</u> tificate	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS
Marine / Shipping					
BUREAU VERITAS		Lloyds Register uis	PRS	RINA	RMRS
other		Railway	Dangerous Good	Environment	
<u>Confirmation</u>		<u>Vibration and Shock</u>	Transport Information	Environmental Con- firmations	
Further information					
Siemens has decided to e					
https://press.siemens.com// Siemens is working on the Please contact your local S EAC relevant market (other Information on the packag https://support.industry.sier Information- and Downloa https://www.siemens.com/i/	e renewal of the cur iemens office on the than the sanctioned ging nens.com/cs/ww/en/v adcenter (Catalogs,	rent EAC certificates. status of validity of the EA EAEU member states Rus iew/109813875	C certification if you intend	d to import or offer to suppl	ly these products to an
Industry Mall (Online orden https://mall.industry.siemen	ering system)	talog/product?mlfb=3RT23	<u>317-1BB40</u>		
Cax online generator http://support.automation.si	emens.com/WW/CA>	Korder/default.aspx?lang=	en&mlfb=3RT2317-1BB40	<u>)</u>	
Service&Support (Manual https://support.industry.sier					
Image database (product http://www.automation.siem	images, 2D dimensi	on drawings, 3D models		s, EPLAN macros,)	
Characteristic: Tripping c					

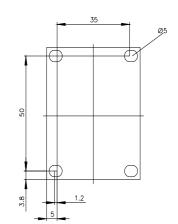
 https://support.industry.siemens.com/cs/ww/en/ps/3RT2317-1BB40/char

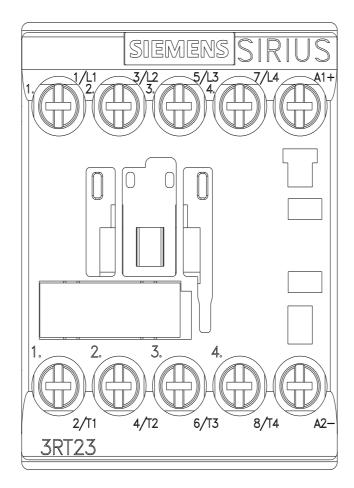
 Further characteristics (e.g. electrical endurance, switching frequency)

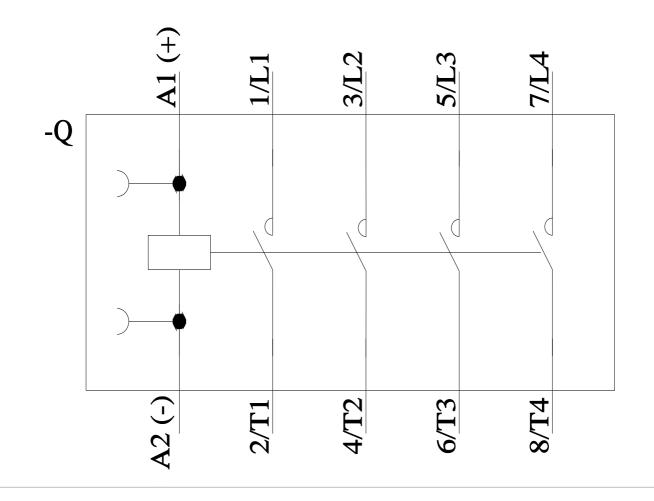
 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2317-1BB40&objecttype=14&gridview=view1











last modified:

11/21/2022 🖸