## SIEMENS

## Data sheet

## 3RT2316-2BB40



contactor AC-1, 18 A, 400 V / 40  $^{\circ}\text{C},$  4-pole, 24 V DC, spring-loaded terminal, size: S00

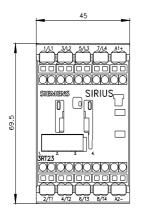
ADDS ALTE SET	
product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	
size of contactor	S00
product extension	
<ul> <li>function module for communication</li> </ul>	No
<ul> <li>auxiliary switch</li> </ul>	Yes
power loss [W] for rated value of the 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</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	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 (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>	18 A

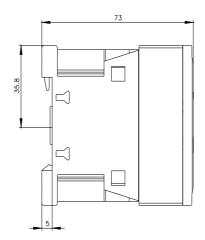
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	18 A
— up to 690 V at ambient temperature 60 °C rated	16 A
value	
• at AC-3	
— at 400 V rated value	9 A
• at AC-4 at 400 V rated value	8.5 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm <sup>2</sup>
operating 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	
<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
Iimited 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	
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	
• 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	
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>	
<ul> <li>— with type of coordination 1 required</li> </ul>	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
<ul> <li>side-by-side mounting</li> </ul>	Yes
height	70 mm
width	45 mm
depth	73 mm
required spacing	

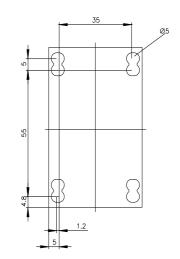
General Product Approval	EMC
Certificates/ approvals	
product function bus communication	No
	No
Communication/ Protocol	ווישטי-סמוט, וטר זיבווגמו נטוונמט ווטוו נווכ ווטוונ
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
	IP20
T1 value for proof test interval or service life according to IEC	20 a
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes; with 3RH29
product function	
Safety related data	
<ul> <li>for auxiliary contacts</li> </ul>	20 12
for main contacts	20 12
section	
AWG number as coded connectable conductor cross	
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12
— finely stranded without core end processing	2x (0.5 2.5 mm <sup>2</sup> )
— finely stranded with core end processing	2x (0.5 2.5 mm <sup>2</sup> )
— solid or stranded	2x (0,5 4 mm <sup>2</sup> )
— solid	2x (0.5 2.5 mm²)
for auxiliary contacts	
type of connectable conductor cross-sections	
<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>
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
solid or stranded	0.5 4 mm²
connectable conductor cross-section for auxiliary contacts	
<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>
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 4 mm <sup>2</sup>
stranded	0.5 4 mm²
solid     solid or stranded	0.5 4 mm²
solid	0.5 4 mm²
connectable conductor cross-section for main contacts	LA (0.0 2.0 mm )
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )
solid     solid	2x (0.5 4 mm <sup>2</sup> )
solid	2x (0.5 4 mm²)
type of connectable conductor cross-sections for main contacts	
of magnet coil	Spring-type terminals
at contactor for auxiliary contacts	Spring-type terminals
for auxiliary and control circuit	spring-loaded terminals
for main current circuit	spring-loaded terminals
type of electrical connection	
Connections/ Terminals	
— at the side	6 mm
— downwards	10 mm
— ipiwards	10 mm
forwards	10 mm
for live parts	
— downwards	10 mm
— upwards — at the side	6 mm
— ipiwards	10 mm
forwards	10 mm
for grounded parts	
— at the side	0 mm
— downwards	10 mm
— forwards — upwards	10 mm 10 mm
• with side-by-side mounting	
e with side by side mounting	

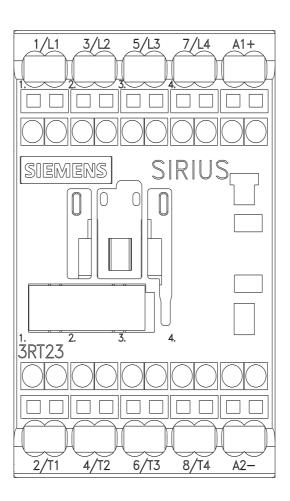
(S) M		Confirmation		EHC	RCM			
Functional Safety/Safety of Ma- chinery	Declaration of Confor	mity	Test Certificates		Marine / Shipping			
Type Examination Cer- tificate	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS			
Marine / Shipping								
B UREAU VERITAS		Llovd's Register us	PRS	RINA	RMRS			
other		Railway	Dangerous Good	Environment				
<u>Confirmation</u>		Vibration and Shock	Transport Information	Environmental Con- firmations				
Further information	a suit the Duration model							
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).								
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Cax online generator	Cax online generator							
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	Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2316-2BB40/char							

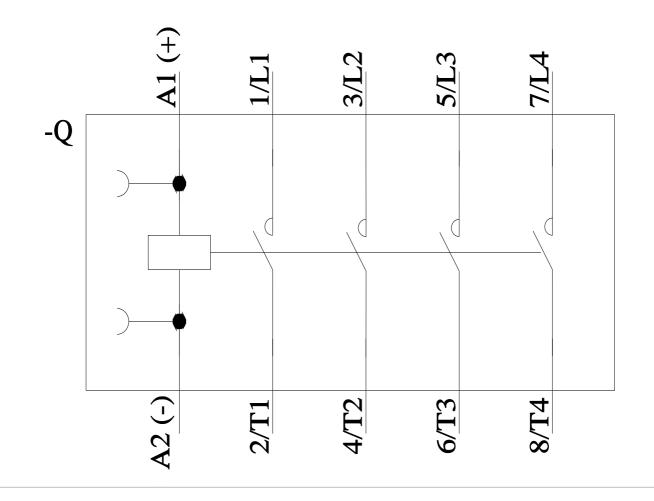
https://support.industry.siemens.com/cs/ww/en/ps/3RT2316-2BB40/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3 -3RT2316-2BB40&objecttype=14&gridview=view1











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