SIEMENS

Data sheet 3RT2325-1BB40



contactor AC-1, 35 A, 400 V / 40 °C, 4-pole, 24 V DC, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

product brand name	SIRIUS	
product designation	Contactor	
product type designation	3RT23	
General technical data		
size of contactor	S0	
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 	7.6 W	
 at AC in hot operating state per pole 	1.9 W	
 without load current share typical 	5.9 W	
type of calculation of power loss depending on pole	quadratic	
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	10g / 5 ms, 7,5g / 10 ms	
shock resistance with sine pulse		
• at DC	15g / 5 ms, 10g / 10 ms	
mechanical service life (operating cycles)		
 of contactor typical 	10 000 000	
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 %	
Environmental footprint		
Environmental Product Declaration(EPD)	Yes	
Global Warming Potential [CO2 eq] total	293 kg	
Global Warming Potential [CO2 eq] during manufacturing	3.36 kg	

Global Warming Potential [CO2 eq] during operation	290 kg
Global Warming Potential [CO2 eq] after end of life	-0.566 kg
Main circuit	-0.300 kg
	4
number of poles for main current circuit	4
number of NO contacts for main contacts	4
operational current	05.4
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	35 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	35 A
value	
 up to 690 V at ambient temperature 60 °C rated 	30 A
value	
• at AC-3	
— at 400 V rated value	15.5 A
at AC-4 at 400 V rated value	15.5 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm²
operating power • at AC-3 at 400 V rated value	7.5 W
at AC-3 at 400 V rated value at AC-4 at 400 V rated value	7.5 W
	1.J VV
no-load switching frequency • at DC	1.500.1/h
	1 500 1/h
operating frequency at AC-1 maximum	1 000 1/h
Control circuit/ Control	DC.
type of voltage	DC
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	041/
•	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	5.9 W
holding power of magnet coil at DC	5.9 W
closing delay	
• at DC	50 170 ms
opening delay	30 110 IIIC
• at DC	15 18 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	Constant of the
number of NC contacts for auxiliary contacts	1
attachable	2
instantaneous contact	1
number of NO contacts for auxiliary contacts	1
attachable	2
	1
instantaneous contact operational current at AC 12 maximum	10 A
operational current at AC-12 maximum	IU A
operational current at AC-15	10.0
at 230 V rated value at 400 V rated value	10 A
at 400 V rated value at 500 V rated value	3 A
at 500 V rated value at 600 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	10.0
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	10 A
at 48 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.3 A
• at 220 V rated value	0.3 A
at 600 V rated value	0.3 A
design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required	gG: 10 A (230 V, 400 A)
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / Q600
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: 63 A (690 V, 100 kA)
with type of assignment 2 required	gG: 20 A (690 V, 100 kA)
for short-circuit protection of the auxiliary switch required	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
height	85 mm
width	60 mm
depth	107 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 	
— 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	screw-type terminals
for auxiliary and control circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	yr
• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
connectable conductor cross-section for main contacts	
solid	1 10 mm²
solid solid or stranded	1 10 mm²
stranded stranded	1 10 mm²
	1 10 mm²
• finely stranded with core end processing	1 10 IIIIII
connectable conductor cross-section for auxiliary contacts	0.5 2.5 mm²
solid or stranded finely stranded with core and processing	0.5 2.5 mm ² 0.5 2.5 mm ²
finely stranded with core end processing type of connectable conductor cross-sections	0.0 2.0 IIIII
type of connectable conductor cross-sections	

• for auxiliary contacts - solid 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) - solid or stranded 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) - finely stranded with core end processing 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14) AWG number as coded connectable conductor cross section • for main contacts 16 8 · for auxiliary contacts 20 ... 14 product function • mirror contact according to IEC 60947-4-1 Yes IEC 61508 T1 value • for proof test interval or service life according to IEC 20 a 61508 **Electrical Safety** IP20 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front Communication/ Protocol product function bus communication No

Approvals Certificates **General Product Approval**







Confirmation





General Product Ap-EMV **Functional Saftey Test Certificates** proval





Type Examination Certificate

Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping

Marine / Shipping other











Miscellaneous

Dangerous Good other Railway Environment

Confirmation

Special Test Certificate

Transport Information



Environmental Con-firmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2325-1BB40

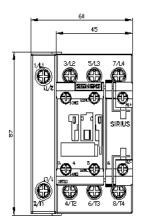
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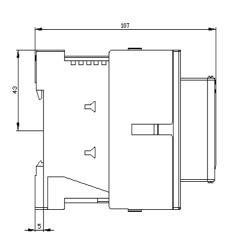
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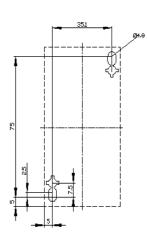
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1BB40

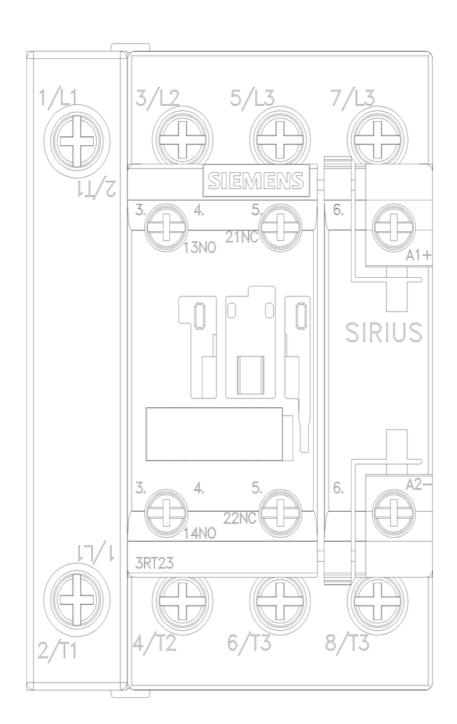
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

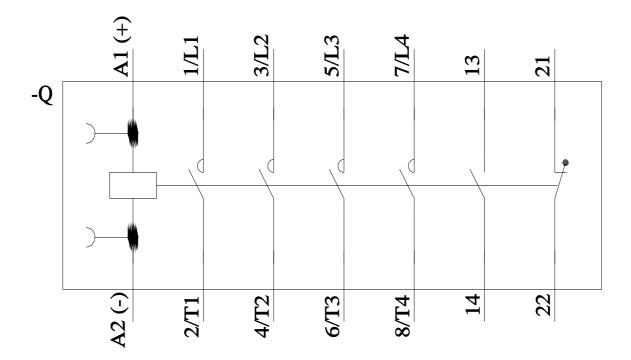
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-1BB40&objecttype=14&gridview=view1











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