SIEMENS

Data sheet 3RT2326-2BB40

Contactor, AC-1, 40 A/400 V/40 $^{\circ}$ C, S0, 4-pole, 24 V DC, 1 NO+1 NC, Spring-type terminal



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
Surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
Protection class IP	
• on the front	IP20
• of the terminal	IP20
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 (switching cycles)	

 of contactor typical 	10 000 000
of the contactor with added auxiliary switch	100 000 000
block typical	
Reference code acc. to DIN EN 81346-2	Q

Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
Relative humidity	
during operation	95 %

• during operation	30 /0
Main circuit	
Number of poles for main current circuit	4
Number of NO contacts for main contacts	4
Operating voltage	
• at AC	
— at 50 Hz rated value	690 V
— at 60 Hz rated value	690 V
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	40 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	40 A
 up to 690 V at ambient temperature 60 °C rated value 	35 A
• 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 kW
• at AC-4 at 400 V rated value	7.5 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	1 500 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	5.9 W
Holding power of magnet coil at DC	5.9 W
Closing delay	
• at DC	50 170 ms
Opening delay	
• at DC	15 17.5 ms
Arcing time	10 10 ms
Control version of the switch operating mechanism	Standard A1 - A2

Auxiliary circuit	
Number of NC contacts for auxiliary contacts	1
attachable	2
• instantaneous contact	1
Number of NO contacts for auxiliary contacts	1
attachable	2
• instantaneous contact	1
Operating current at AC-12	
• maximum	10 A
Operating current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
Operating current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A

required Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
• for short-circuit protection of the auxiliary switch	gG: 10 A (230 V, 400 A)
Design of the miniature circuit breaker	
• at 600 V rated value	0.1 A
• at 220 V rated value	0.3 A
• at 125 V rated value	0.9 A
• at 110 V rated value	1 A
• at 48 V rated value	2 A
• at 24 V rated value	10 A
Operating current at DC-13	
• at 600 V rated value	0.15 A
• at 220 V rated value	1 A
• at 125 V rated value	2 A
• at 110 V rated value	3 A
• at 60 V rated value	6 A

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
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Side-by-side mounting	Yes
Height	102 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

spring-loaded terminals
spring-loaded terminals
2x (1 10 mm²)
2x (1 10 mm²)
2x (1 6 mm²)
2x (1 6 mm²)
2x (18 8)
1 10 mm²
1 10 mm²
1 10 mm²
1 6 mm²
1 6 mm²
0.5 2.5 mm²
0.5 1.5 mm²
0.5 2.5 mm ²
2x (0.5 2.5 mm²)
2x (0,5 2,5 mm²)
2x (0.5 1.5 mm²)
2x (0.5 2.5 mm²)
2x (20 14)

AWG number as coded connectable conductor cross section

• for main contacts

18 ... 8

• for auxiliary contacts

20 ... 14

Safety related data

Product function

• Mirror contact acc. to IEC 60947-4-1

Yes

T1 value for proof test interval or service life acc. to

IEC 61508

20 y

Protection against electrical shock

finger-safe

Communication/ Protocol

Product function Bus communication

No

Certificates/ approvals

General Product Approval

EMC

Functional Safety/Safety of Machinery











Type Examination
Certificate

Declaration of Conformity

Test Certificates

Marine / Shipping



Miscellaneous

Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other











Confirmation

other



Further information

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=3RT2326-2BB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2326-2BB40

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

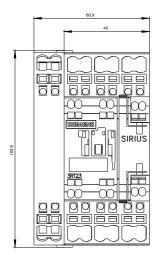
https://support.industry.siemens.com/cs/ww/en/ps/3RT2326-2BB40

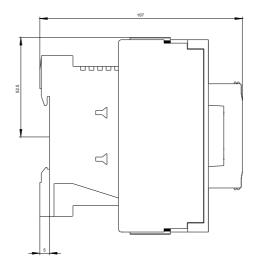
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2326-2BB40&lang=en

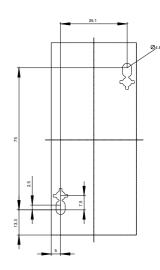
Characteristic: Tripping characteristics, I2t, Let-through current

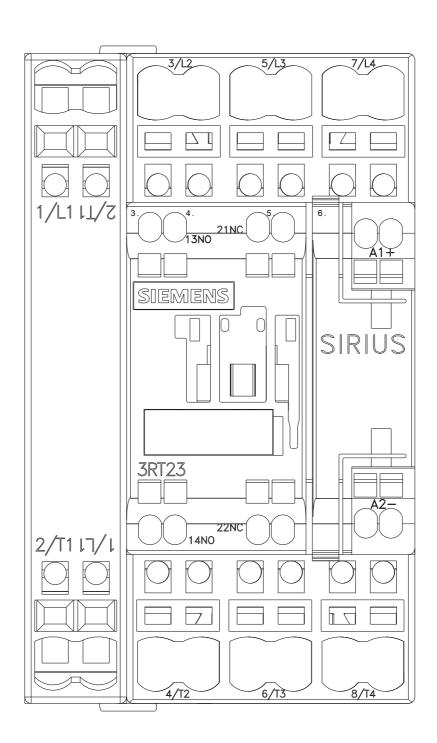
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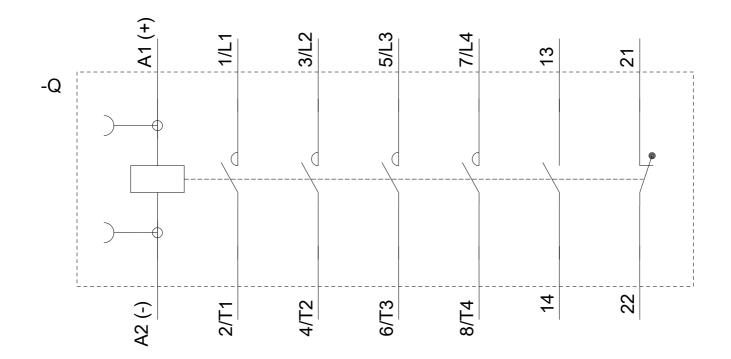
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2326-2BB40&objecttype=14&gridview=view1











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