SIEMENS

Data sheet 3RT2326-2BM40

Contactor, AC-1, 40 A/400 V/40 °C, S0, 4-pole, 220 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
 product extension 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
 protection class IP 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 block typical 	100 000 000
reference code acc. to DIN EN 81346-2	Q

Ambient conditions	
 installation altitude at height above sea level maximum 	2 000 m
 ambient temperature during operation 	-25 +60 °C
 ambient temperature during storage 	-55 +80 °C
relative humidity	
during operation	95 %

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
 operating voltage at AC at 60 Hz rated value 	690 V
 Operating current at AC-1 at 400 V 	
— at ambient temperature 40 °C rated value	40 A
 Operating current 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
•	
 operating current at AC-3 at 400 V rated value 	15.5 A
 Operating current 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
 Operating power 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	
	DO.
type of voltage	DC
Type of voltage of the control supply voltage	DC
 control supply voltage at DC rated value 	220 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
 Number of NC contacts for auxiliary contacts attachable 	2
 Number of NC contacts for auxiliary contacts instantaneous contact 	1
 number of NO contacts for auxiliary contacts 	1
 Number of NO contacts for auxiliary contacts attachable 	2
 Number of NO contacts for auxiliary contacts instantaneous contact 	1
 Operating current at AC-12 maximum 	10 A
 Operating current at AC-15 at 230 V rated value 	10 A
 Operating current at AC-15 at 400 V rated value 	3 A
 Operating current at AC-15 at 500 V rated value 	2 A
 Operating current at AC-15 at 690 V rated value 	1 A

contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (230 V, 400 A)
Design of the miniature circuit breaker	
 Operating current at DC-13 at 600 V rated value 	0.1 A
 Operating current at DC-13 at 220 V rated value 	0.3 A
value	
Operating current at DC-13 at 125 V rated	0.9 A
• operating current at DC-13 at 110 V rated value	1 A
• operating current at DC-13 at 48 V rated value	2 A
Operating current at DC-13 at 24 V rated value	10 A
 Operating current at DC-12 at 600 V rated value 	0.15 A
 Operating current at DC-12 at 220 V rated value 	1 A
 Operating current at DC-12 at 125 V rated value 	2 A
 operating current at DC-12 at 110 V rated value 	3 A
 Operating current at DC-12 at 60 V rated value 	6 A
• operating current at DC-12 at 48 V rated value	6 A
 Operating current at DC-12 at 24 V rated value 	

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)
 Design of the fuse link for short-circuit protection of the main circuit with type of assignment 2 required 	gG: 20 A (690 V, 100 kA)
 design of the fuse link 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

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mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
 mounting type 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

Connection	ns/ Terminals
	113/ TOTTILITAIS

Connections, Terminals	
 type of electrical connection for main current circuit 	spring-loaded terminals
 type of electrical connection for auxiliary and control current circuit 	spring-loaded terminals
 type of connectable conductor cross-sections for main contacts solid 	2x (1 10 mm²)
 type of connectable conductor cross-sections for main contacts single or multi-stranded 	2x (1 10 mm²)
 type of connectable conductor cross-sections for main contacts finely stranded with core end processing 	2x (1 6 mm²)
 type of connectable conductor cross-sections for main contacts finely stranded without core end processing 	2x (1 6 mm²)
 type of connectable conductor cross-sections at AWG conductors for main contacts 	2x (18 8)
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
• single or multi-stranded	1 10 mm²
• stranded	1 10 mm²
 finely stranded with core end processing 	1 6 mm²
 finely stranded without core end processing 	1 6 mm²

connectable conductor cross-section for auxiliary contacts	
single or multi-stranded	0.5 2.5 mm²
finely stranded with core end processing	0.5 1.5 mm ²
·	0.5 2.5 mm²
finely stranded without core end processing	
 type of connectable conductor cross-sections for auxiliary contacts solid 	2x (0.5 2.5 mm²)
 type of connectable conductor cross-sections for auxiliary contacts single or multi-stranded 	2x (0,5 2,5 mm²)
 type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing 	2x (0.5 1.5 mm²)
 type of connectable conductor cross-sections for auxiliary contacts finely stranded without core end processing 	2x (0.5 2.5 mm²)
 type of connectable conductor cross-sections at AWG conductors for auxiliary contacts 	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	20 y
IEC 61508	
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





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other



LRS









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=3RT2326-2BM40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2326-2BM40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2326-2BM40

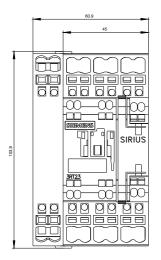
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2326-2BM40&lang=en

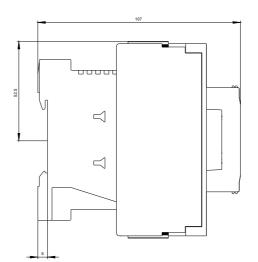
Characteristic: Tripping characteristics, I2t, Let-through current

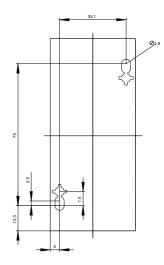
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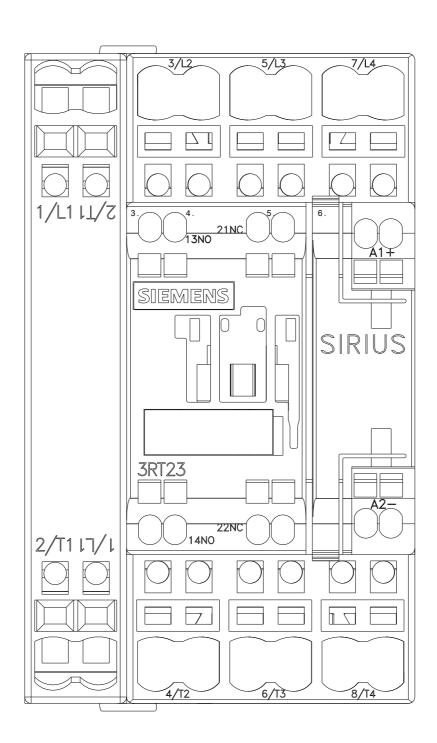
Further characteristics (e.g. electrical endurance, switching frequency)

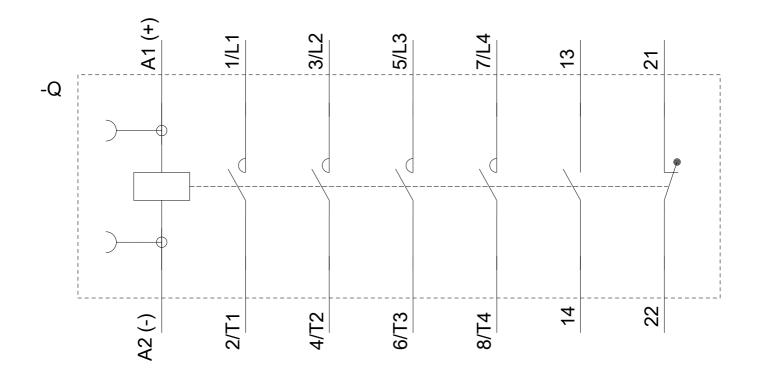
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