## **SIEMENS**

Data sheet 3RT2326-1BM40



Contactor, AC-1, 40 A/400 V/40  $^{\circ}\text{C},$  S0, 4-pole, 220 V DC, 1 NO+1 NC, screw terminal

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	
size of contactor	S0
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>	9.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.4 W
without load current share typical	5.9 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 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	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 (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	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	
<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	
at AC-1 at 400 V at ambient temperature 40 °C	40 A
rated value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C	40 A
rated value	
— up to 690 V at ambient temperature 60 °C	35 A
rated 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	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	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	
Iimited 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 3 switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
_	Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum     limited to 60 s quitching at zero current maximum	
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	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	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 18 ms
	10 10 ms
arcing time	
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
<ul> <li>instantaneous contact</li> </ul>	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
	3 A
at 400 V rated value	
at 400 V rated value     at 500 V rated value	2 A
• at 500 V rated value	2 A 1 Δ
<ul><li>at 500 V rated value</li><li>at 690 V rated value</li></ul>	2 A 1 A
at 500 V rated value     at 690 V rated value  operational current at DC-12	1 A
at 500 V rated value     at 690 V rated value     operational current at DC-12     at 24 V rated value	1 A 10 A
at 500 V rated value     at 690 V rated value  operational current at DC-12     at 24 V rated value     at 48 V rated value	1 A 10 A 6 A
at 500 V rated value  at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value	1 A 10 A 6 A 6 A
at 500 V rated value     at 690 V rated value  operational current at DC-12     at 24 V rated value     at 48 V rated value	1 A 10 A 6 A

<ul> <li>at 125 V rated value</li> </ul>	2 A	
<ul> <li>at 220 V rated value</li> </ul>	1 A	
at 600 V rated value	0.15 A	
operational current at DC-13		
<ul> <li>at 24 V rated value</li> </ul>	10 A	
<ul> <li>at 48 V rated value</li> </ul>	2 A	
<ul> <li>at 110 V rated value</li> </ul>	1 A	
<ul> <li>at 125 V rated value</li> </ul>	0.9 A	
at 220 V rated value	0.3 A	
at 600 V rated value	0.1 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	gG: 10 A (690 V, 1 kA)	
required	3	
Installation/ mounting/ dimensions		
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted	
fastening method	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail	
	according to DIN EN 60715 Yes	
side-by-side mounting     beight	85 mm	
height width	60 mm	
depth	107 mm	
required spacing	107 111111	
with side-by-side mounting		
— forwards	10 mm	
	10 mm	
— upwards — downwards	10 mm	
— at the side	0 mm	
for grounded parts	O IIIIII	
	10 mm	
— forwards	10 mm 10 mm	
— upwards		
— at the side	6 mm	
— downwards	10 mm	
• for live parts	10 mm	
— 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		
<ul> <li>for main contacts</li> </ul>		
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)	
<ul><li>— solid or stranded</li></ul>	2x (1 2.5 mm²), 2x (2.5 10 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²	
<ul> <li>at AWG cables for main contacts</li> </ul>	2x (16 12), 2x (14 8)	

connectable conductor cross-section for main contacts		
• solid	1 10 mm²	
solid or stranded	1 10 mm²	
• stranded	1 10 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>	1 10 mm²	
connectable conductor cross-section for auxiliary	1 10 111111	
contacts		
<ul> <li>solid or stranded</li> </ul>	0.5 2.5 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)	
<ul><li>— solid or stranded</li></ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)	
AWG number as coded connectable conductor cross section		
for main contacts	16 8	
<ul> <li>for auxiliary contacts</li> </ul>	20 14	
Safety related data		
product function		
mirror contact according to IEC 60947-4-1	Yes	
T1 value for proof test interval or service life according to IEC 61508	20 y	
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		
Ocitificates/ approvais		





Confirmation







Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping

Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping











Confirmation

other

other

**Dangerous Good** 



## Transport 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=3RT2326-1BM40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2326-1BM40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2326-1BM40

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2326-1BM40&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2326-1BM40/char

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2326-1BM40&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2326-1BM40&objecttype=14&gridview=view1</a>

3/18/2022 last modified: