# **SIEMENS**

Data sheet 3RT2317-1AP00

Contactor, AC-1, 22 A/400 V/40  $^{\circ}$ C, S00, 4-pole, 230 V AC, 50/60 Hz, screw terminal



Product brand name	SIRIUS
Product designation	Contactor
Product type designation	3RT23

General technical data	
S00	
No	
Yes	
6 kV	
6 kV	
IP20	
IP20	
7,3g / 5 ms, 4,7g / 10 ms	
11,4g / 5 ms, 7,3g / 10 ms	

<ul> <li>of contactor typical</li> </ul>	30 000 000
• of the contactor with added auxiliary switch	30 000 000
block typical	
Reference code acc. to DIN EN 81346-2	Q

2 000 m
95 %

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Main circuit  Number of poles for main current circuit	4
Number of NO contacts for main contacts	
	4
Operating voltage	
• at AC	000.14
— at 50 Hz rated value	690 V
— at 60 Hz rated value	690 V
Operating current	
• at AC-1 at 400 V	
<ul> <li>at ambient temperature 40 °C rated value</li> </ul>	22 A
• at AC-1	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	22 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	20 A
• at AC-3	
— at 400 V rated value	12 A
• at AC-4 at 400 V rated value	8.5 A
Minimum cross-section in main circuit	
• at maximum AC-1 rated value	4 mm²
Operating power	
• at AC-3	
— at 400 V rated value	5.5 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 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
No-load switching frequency	
• at AC	10 000 1/h

• at AC-1 maximum	1 000 1/h
Control circuit/ Control	
Type of voltage	AC
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
• at 50 Hz rated value	230 V
• at 60 Hz rated value	230 V
Operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	
● at 50 Hz	37 V·A
● at 60 Hz	33 V·A
Inductive power factor with closing power of the coil	
● at 50 Hz	0.8
● at 60 Hz	0.75
Apparent holding power of magnet coil at AC	
● at 50 Hz	5.7 V·A
● at 60 Hz	4.4 V·A
Inductive power factor with the holding power of the coil	
● at 50 Hz	0.25
● at 60 Hz	0.25
Closing delay	
• at AC	8 33 ms
Opening delay	
• at AC	4 15 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)

• for short-circuit protection of the auxiliary switch required

— finely stranded with core end processing

• at AWG conductors for main contacts

Connectable conductor cross-section for main

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
• Cida haarida maaantina	according to DIN EN 60715
Side-by-side mounting	Yes
Height	58 mm
Width	45 mm
Depth	73 mm
Required spacing	
<ul><li>with side-by-side mounting</li></ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul><li>for grounded parts</li></ul>	
— 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	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
<del>-</del>	

contacts

• solid

• single or multi-stranded

0.5 ... 4 mm<sup>2</sup>

0.5 ... 4 mm<sup>2</sup>

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14), 2x 12

• stranded	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
Connectable conductor cross-section for auxiliary	
contacts	
<ul> <li>single or multi-stranded</li> </ul>	0.5 4 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 1,5mm²), 2x (0.75 2.5 mm²)
<ul> <li>— single or multi-stranded</li> </ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 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 conductors for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12
AWG number as coded connectable conductor cross	
section	
• for main contacts	20 12
• for auxiliary contacts	20 12
Safety related data	
Product function	
<ul> <li>Mirror contact acc. to IEC 60947-4-1</li> </ul>	Yes; with 3RH29
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,...)

www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2317-1AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2317-1AP00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2317-1AP00

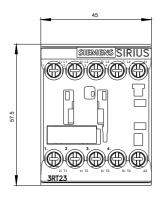
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2317-1AP00&lang=en

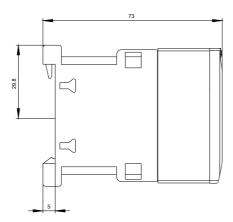
Characteristic: Tripping characteristics, I2t, Let-through current

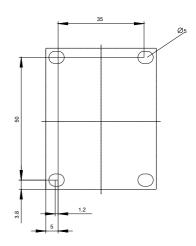
https://support.industry.siemens.com/cs/ww/en/ps/3RT2317-1AP00/char

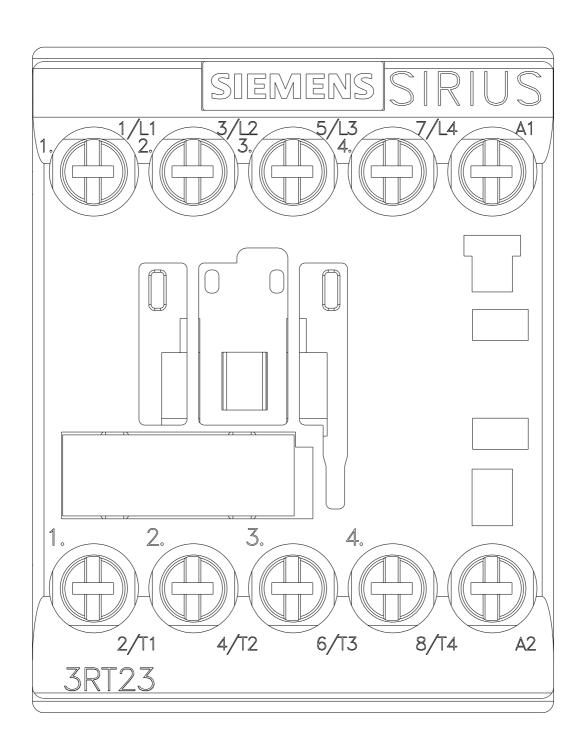
Further characteristics (e.g. electrical endurance, switching frequency)

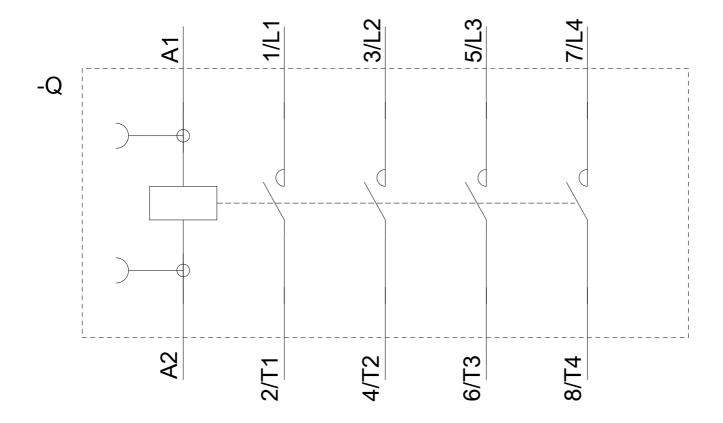
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2317-1AP00&objecttype=14&gridview=view1











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