## **SIEMENS**

Data sheet 3RT2325-1AF00



Contactor, AC-1, 35 A/400 V/40 °C, S0, 4-pole, 110 V AC/50 Hz, 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
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 AC	7,5g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 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	100 000 000
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2009 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
<ul> <li>ambient temperature during operation</li> </ul>	-25 +60 °C
<ul> <li>ambient temperature during storage</li> </ul>	-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
— at 60 Hz rated value	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	35 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	35 A

— up to 690 V at ambient temperature 60 °C	30 A
rated value	15 5 A
<ul><li>at AC-3 at 400 V rated value</li><li>at AC-4 at 400 V rated value</li></ul>	15.5 A 15.5 A
minimum cross-section in main circuit at maximum AC-1	10.5 A 10 mm²
rated value	10 111111
operating power	
<ul><li>at AC-3 at 400 V rated value</li></ul>	7.5 kW
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	7.5 kW
short-time withstand current in cold operating state up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
<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
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency 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	110 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	77 V·A
inductive power factor with closing power of the coil	
● at 50 Hz	0.82
apparent holding power of magnet coil at AC	
at 50 Hz	9.8 V·A
inductive power factor with the holding power of the	
coil  • at 50 Hz	0.25
closing delay	0.25
• at AC	9 38 ms
opening delay	0 00 III0
• at AC	4 16 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
operational current at AC-12 maximum	10 A
operational 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
operational current at DC-12	
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	
<ul><li>at 24 V rated value</li></ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	2 A
at 110 V rated value	1 A
at 125 V rated value	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	gg. 10 A (090 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 standard mounting rail according to DIN EN 60715
side-by-side mounting	Yes
height	85 mm
width	60 mm
depth	97 mm
required spacing	
<ul><li>with side-by-side mounting</li></ul>	
— forwards	10 mm
— upwards	10 mm
the state of the s	40
— downwards	10 mm
·	10 mm 0 mm
— downwards	
<ul><li>downwards</li><li>at the side</li></ul>	
<ul><li>downwards</li><li>at the side</li><li>for grounded parts</li></ul>	0 mm
<ul> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> </ul>	0 mm 10 mm
<ul> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> </ul>	0 mm 10 mm 10 mm
<ul> <li>— downwards</li> <li>— at the side</li> <li>• for grounded parts</li> <li>— forwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul>	0 mm  10 mm  10 mm  6 mm
<ul> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> </ul>	0 mm  10 mm  10 mm  6 mm
<ul> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> </ul>	0 mm  10 mm  10 mm  6 mm  10 mm
<ul> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> </ul>	0 mm  10 mm  10 mm  6 mm  10 mm  10 mm
<ul> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>downwards</li> <li>downwards</li> <li>downwards</li> </ul>	0 mm  10 mm  10 mm  6 mm  10 mm  10 mm  10 mm
<ul> <li>— downwards</li> <li>— at the side</li> <li>◆ for grounded parts</li> <li>— forwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> <li>◆ for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul>	0 mm  10 mm  10 mm  6 mm  10 mm  10 mm
- downwards - at the side  • for grounded parts - forwards - upwards - at the side - downwards  • for live parts - forwards - upwards - upwards - uthe side - downwards - the side - downwards - the side - downwards - at the side	0 mm  10 mm  10 mm  6 mm  10 mm  10 mm  10 mm
- downwards - at the side  • for grounded parts - forwards - upwards - at the side - downwards  • for live parts - forwards - upwards - upwards - upwards - at the side Connections/ Terminals	0 mm  10 mm  10 mm  6 mm  10 mm  10 mm  10 mm  6 mm
— downwards — at the side  • for grounded parts — forwards — upwards — at the side — downwards  • for live parts — forwards — upwards — upwards — downwards — at the side  Connections/ Terminals  type of electrical connection • for main current circuit	0 mm  10 mm  10 mm  6 mm  10 mm  10 mm  10 mm  6 mm  screw-type terminals
<ul> <li>— downwards</li> <li>— at the side</li> <li>◆ for grounded parts</li> <li>— forwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> <li>◆ for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>● for main current circuit</li> <li>● for auxiliary and control circuit</li> </ul>	0 mm  10 mm  10 mm  6 mm  10 mm  10 mm  10 mm  6 mm
- downwards - at the side  • for grounded parts - forwards - upwards - at the side - downwards  • for live parts - forwards - upwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit  type of connectable conductor cross-sections	0 mm  10 mm  10 mm  6 mm  10 mm  10 mm  10 mm  6 mm  screw-type terminals
- downwards - at the side  • for grounded parts - forwards - upwards - at the side - downwards  • for live parts - forwards - upwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit  type of connectable conductor cross-sections • for main contacts	0 mm  10 mm  10 mm  6 mm  10 mm  10 mm  10 mm  10 mm  6 mm  screw-type terminals screw-type terminals
- downwards - at the side  • for grounded parts - forwards - upwards - at the side - downwards  • for live parts - forwards - upwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit  type of connectable conductor cross-sections • for main contacts - solid	0 mm  10 mm  10 mm  6 mm  10 mm  10 mm  10 mm  10 mm  6 mm  screw-type terminals screw-type terminals
— downwards — at the side  • for grounded parts — forwards — upwards — at the side — downwards  • for live parts — forwards — upwards — upwards — downwards — at the side  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit  type of connectable conductor cross-sections • for main contacts — solid — solid or stranded	0 mm  10 mm  10 mm  6 mm  10 mm  10 mm  10 mm  10 mm  6 mm  screw-type terminals screw-type terminals  2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2,5 mm²), 2x (2,5 10 mm²)
- downwards - at the side  • for grounded parts - forwards - upwards - at the side - downwards  • for live parts - forwards - upwards - upwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit  type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing	0 mm  10 mm  10 mm  6 mm  10 mm  10 mm  10 mm  10 mm  10 mm  6 mm  screw-type terminals screw-type terminals  2x (1 2.5 mm²), 2x (2.5 10 mm²)  2x (1 2,5 mm²), 2x (2,5 10 mm²)  2x (1 2,5 mm²), 2x (2.5 10 mm²)
— downwards — at the side  • for grounded parts — forwards — upwards — at the side — downwards  • for live parts — forwards — upwards — upwards — downwards — at the side  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit  type of connectable conductor cross-sections • for main contacts — solid — solid or stranded	0 mm  10 mm  10 mm  6 mm  10 mm  10 mm  10 mm  10 mm  6 mm  screw-type terminals screw-type terminals  2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2,5 mm²), 2x (2,5 10 mm²)

.5 mm²), 2x (0.75 2.5 mm²), 5 mm²), 2x (0,75 2,5 mm²). 5 mm²), 2x (0.75 2.5 mm²) 6), 2x (18 14)		
,5 mm²), 2x (0,75 2,5 mm²) .5 mm²), 2x (0.75 2.5 mm²) 3), 2x (18 14)		
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nm² nm²		
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**General Product Approval** 









**EMC** 

**Miscellaneous** 

Conformity

Declaration	of
Conformity	

**Test Certificates** 

Marine / Shipping



Type Test
Certificates/Test Report

**Special Test** Certificate







## Marine / Shipping





Confirmation

other



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=3RT2325-1AF00

## Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2325-1AF00

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

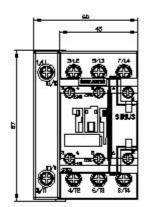
https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1AF00

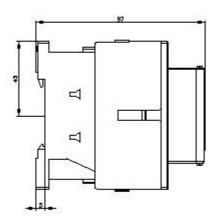
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2325-1AF00&lang=en

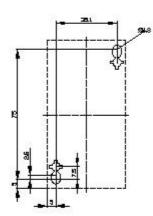
Characteristic: Tripping characteristics, I2t, Let-through current

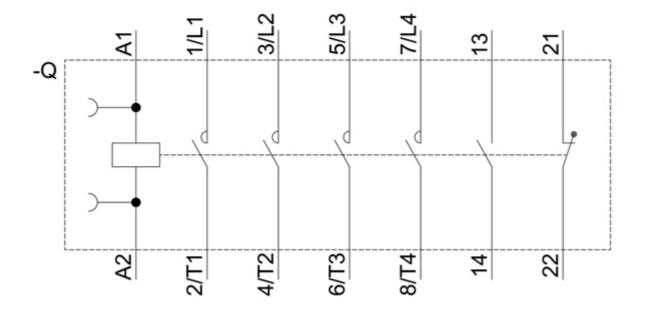
https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1AF00/char

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-1AF00&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-1AF00&objecttype=14&gridview=view1</a>









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