## **SIEMENS**

Data sheet 3RT2325-1AL20



Contactor, AC-1, 35 A/400 V/40 °C, S0, 4-pole, 230 V AC, 50/60 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
<ul><li>auxiliary switch</li></ul>	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	7.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.9 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
<ul> <li>of auxiliary circuit rated value</li> </ul>	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
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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 rated value	35 A
<ul> <li>at AC-1         — up to 690 V at ambient temperature 40 °C     </li> </ul>	35 A
— up to 690 V at ambient temperature 60 °C rated value	30 A
• at AC-3	
— at 400 V rated value	15.5 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	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
<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	230 V
at 60 Hz rated value	230 V
operating range factor control supply voltage rated	200 V
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	81 VA
● at 60 Hz	79 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
● at 60 Hz	0.74
apparent holding power of magnet coil at AC	
● at 50 Hz	10.5 VA
• at 60 Hz	8.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
● at 60 Hz	0.28
closing delay	
closing delay  ● at AC	8 40 ms
	8 40 ms
• at AC	8 40 ms 4 16 ms
at AC     opening delay	
at AC     opening delay     at AC	4 16 ms
at AC     opening delay     at AC     arcing time	4 16 ms 10 10 ms
at AC     opening delay     at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit	4 16 ms 10 10 ms
at AC     opening delay     at AC     arcing time     control version of the switch operating mechanism	4 16 ms 10 10 ms Standard A1 - A2
at AC     opening delay     at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts	4 16 ms 10 10 ms Standard A1 - A2
at AC     opening delay     at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts         attachable         instantaneous contact	4 16 ms 10 10 ms Standard A1 - A2
at AC     opening delay         at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts         attachable         instantaneous contact     number of NO contacts for auxiliary contacts	4 16 ms 10 10 ms Standard A1 - A2
at AC     opening delay         at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts         attachable         instantaneous contact	4 16 ms 10 10 ms Standard A1 - A2

operational current at AC-12 maximum	10 A		
operational current at AC-12 maximum operational current at AC-15	10 /		
at 230 V rated value	10 A		
	3 A		
at 400 V rated value	2 A		
at 500 V rated value	2 A 1 A		
at 690 V rated value	1 A		
operational current at DC-12	40.4		
at 24 V rated value	10 A		
at 48 V rated value	6 A		
<ul> <li>at 60 V rated value</li> </ul>	6 A		
<ul> <li>at 110 V rated value</li> </ul>	3 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			
at 24 V rated value	10 A		
at 48 V rated value	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	gG: 10 A (230 V, 400 A)		
protection of the auxiliary switch required			
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	- 17		
<ul> <li>TOT SHORT-CIFCUIT PROTECTION OF THE MAIN CIFCUIT</li> </ul>			
for short-circuit protection of the main circuit     with type of coordination 1 required	gG: 63 A (690 V 100 kA)		
— with type of coordination 1 required	gG: 63 A (690 V, 100 kA)		
<ul><li>— with type of coordination 1 required</li><li>— with type of assignment 2 required</li></ul>	gG: 20 A (690 V, 100 kA)		
— with type of coordination 1 required			
<ul> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> <li>• for short-circuit protection of the auxiliary switch</li> </ul>	gG: 20 A (690 V, 100 kA)		
<ul> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 20 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted		
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions	gG: 20 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions	gG: 20 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail		
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	gG: 20 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted 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		
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting	gG: 20 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted 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		
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height	gG: 20 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted 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 85 mm		
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— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth	gG: 20 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted 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 85 mm		
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General Product Approval		EMC
Certificates/ approvals		
product function bus communication	No	
Communication/ Protocol		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
protection class IP on the front according to IEC 60529	IP20	
IEC 61508		
T1 value for proof test interval or service life according to	20 y	
mirror contact according to IEC 60947-4-1	Yes	
product function		
Safety related data	20 17	
for auxiliary contacts	20 14	
• for main contacts	16 8	
AWG number as coded connectable conductor cross section		
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
<ul> <li>for auxiliary contacts</li> </ul>		
type of connectable conductor cross-sections		
finely stranded with core end processing	0.5 2.5 mm²	
<ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm²	
connectable conductor cross-section for auxiliary contacts		
finely stranded with core end processing	1 10 mm²	
stranded     finely stranded with care and presenting	1 10 mm²	
solid or stranded	1 10 mm²	
• solid	1 10 mm²	
connectable conductor cross-section for main contacts	4 40	
at AWG cables for main contacts	2x (16 12), 2x (14 8)	
— finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²	
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)	
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)	
<ul><li>for main contacts</li></ul>		
type of connectable conductor cross-sections		
of magnet coil	Screw-type terminals	
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals	
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals	
for main current circuit	screw-type terminals	
type of electrical connection		



Confirmation









Functional
Safety/Safety of
Machinery

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping

Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping

other













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=3RT2325-1AL20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2325-1AL20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1AL20

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2325-1AL20&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1AL20/char

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-1AL20&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-1AL20&objecttype=14&gridview=view1</a>

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