## SIEMENS

## Data sheet

## 3RT2325-2AP00



contactor AC-1, 35 A, 400 V / 40 °C, 4-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, spring-loaded 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 (operating 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
<ul> <li>during storage</li> </ul>	-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	
<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 °C	35 A
rated value	
— 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 mm <sup>2</sup>
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	000.1/
• at 50 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
apparent pick-up power of magnet coil at AC • at 50 Hz	77 VA
• at 50 m2 inductive power factor with closing power of the coil	11 VA
• at 50 Hz	0.82
apparent holding power of magnet coil at AC	0.02
• at 50 Hz	9.8 VA
inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.25
closing delay	
● at AC	8 40 ms
opening delay	
• 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     instantaneous context	2
<ul> <li>instantaneous contact</li> <li>operational current at AC-12 maximum</li> </ul>	1 10 A
operational current at AC-12 maximum operational current at AC-15	
at 230 V rated value	10 A
at 200 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
<ul> <li>at 125 V rated value</li> </ul>	2 A

at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	0.15 A
• at 24 V rated value	10 A
at 48 V rated value	2 A
at 110 V rated value	1A
at 125 V rated value	0.9 A
at 125 v lated value     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	90. 10 A (200 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	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— 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)
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (690 V, 1 kA)
required	
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 DIN rail according to DIN EN 60715
e side by side mounting	Yes
<ul> <li>side-by-side mounting</li> <li>height</li> </ul>	102 mm
width	60 mm
depth	97 mm
required spacing	57 mm
with side-by-side mounting	
<ul> <li>with side-by-side mounting</li> <li>forwards</li> </ul>	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	0 mm
- forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
for live parts     forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main	op
contacts	
• solid	2x (1 10 mm²)
<ul> <li>solid or stranded</li> </ul>	2x (1 10 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 6 mm <sup>2</sup> )
<ul> <li>finely stranded without core end processing</li> </ul>	2x (1 6 mm <sup>2</sup> )
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
<ul> <li>solid or stranded</li> </ul>	1 10 mm²
• stranded	1 10 mm²

-	with core end processi without core end proce tor cross-section for	essing	1 6 1 6			
<ul> <li>finely stranded</li> </ul>	with core end processi without core end proce conductor cross-sec	essing	0.5	2.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> 2.5 mm <sup>2</sup>		
— solid — solid or str — finely strar — finely strar		-	2x (0. 2x (0. 2x (0.	5 2.5 mm <sup>2</sup> ) 5 2.5 mm <sup>2</sup> ) 5 1.5 mm <sup>2</sup> ) 5 2.5 mm <sup>2</sup> ) 0 14)		
section	ded connectable con	ductor cross	10	0		
• for main contac			18			
<ul> <li>for auxiliary cor</li> </ul>	itacts		20	14		
Safety related data						
product function						
	iccording to IEC 60947		Yes			
I 1 value for proof tes IEC 61508	t interval or service life	e according to	20 a			
	on the front according	g to IEC	IP20			
touch protection on	the front according t	to IEC 60529	finger	-safe, for vertical conta	ct from the front	
Communication/ Prot	ocol					
product function bu	s communication		No			
Certificates/ approval	S					
General Product Ap	proval					EMC
(SP)		<u>Confirmatic</u>	<u>on</u>		EAC	Ø
				UL		RCM
Functional Safety/Safety of Machinery	Declaration of Con	formity		UL Test Certificates		RCM Marine / Shipping
Safety/Safety of	Declaration of Con	formity CEE EG-Konf.		UL Test Certificates Special Test Certific- ate	<u>Type Test Certific- ates/Test Report</u>	RCM Marine / Shipping
Safety/Safety of Machinery		CE		Special Test Certific-	<u>Type Test Certificates/Test Report</u>	RCM Marine / Shipping
Safety/Safety of Machinery <u>Type Examination</u> <u>Certificate</u>		CE		Special Test Certific-	Type Test Certific- ates/Test Report	RCM Marine / Shipping
Safety/Safety of Machinery <u>Type Examination</u> <u>Certificate</u> Marine / Shipping	UK CA	EG-Konf.		Special Test Certific-	Type Test Certificates/Test Report	RCM Marine / Shipping

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...) <a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a>

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2325-2AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2325-2AP00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-2AP00

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

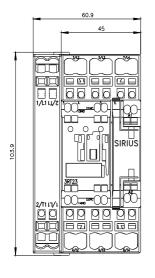
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2325-2AP00&lang=en

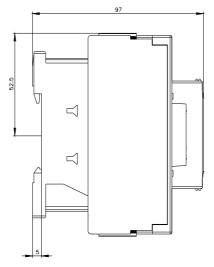
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

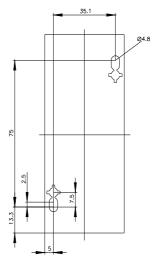
https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-2AP00/char

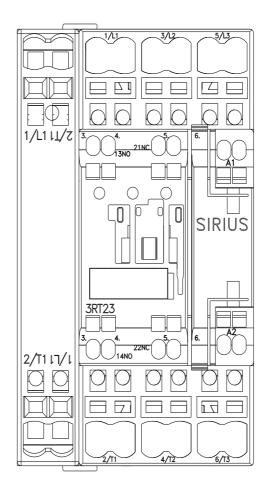
Further characteristics (e.g. electrical endurance, switching frequency)

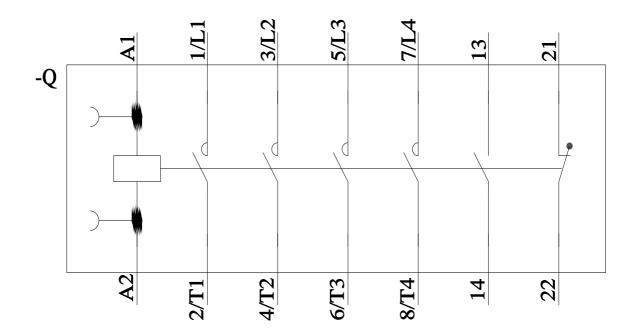
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-2AP00&objecttype=14&gridview=view1











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