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	
 function module for communication 	No
 auxiliary switch 	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	7.6 W
 at AC in hot operating state per pole 	1.9 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of the auxiliary and control circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	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 (operating cycles)	
 of contactor typical 	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	
 during operation 	-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

● 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
 at AC-4 at 400 V rated value 	15.5 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm ²
operating power	
 at AC-3 at 400 V rated value 	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	
 limited 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 10 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	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
 instantaneous contact operational current at AC-12 maximum 	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
 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	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	
 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	
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
 side-by-side mounting height 	102 mm
width	60 mm
depth	97 mm
required spacing	57 mm
with side-by-side mounting	
 with side-by-side mounting forwards 	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
 for auxiliary and control circuit 	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)
 solid or stranded 	2x (1 10 mm ²)
 finely stranded with core end processing 	2x (1 6 mm ²)
 finely stranded without core end processing 	2x (1 6 mm ²)
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
 solid or stranded 	1 10 mm²
• stranded	1 10 mm²

-	with core end processi without core end proce tor cross-section for	essing	1 6 1 6			
 finely stranded 	with core end processi without core end proce conductor cross-sec	essing	0.5	2.5 mm ² 1.5 mm ² 2.5 mm ²		
— solid — solid or str — finely strar — finely strar		-	2x (0. 2x (0. 2x (0.	5 2.5 mm ²) 5 2.5 mm ²) 5 1.5 mm ²) 5 2.5 mm ²) 0 14)		
section	ded connectable con	ductor cross	10	0		
• for main contac			18			
 for auxiliary cor 	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,...) https://www.siemens.com/ic10

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, ...)

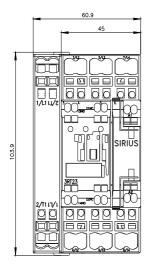
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2325-2AP00&lang=en

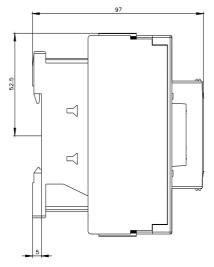
Characteristic: Tripping characteristics, I²t, Let-through current

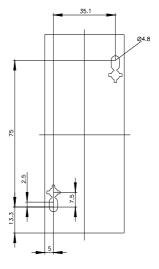
https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-2AP00/char

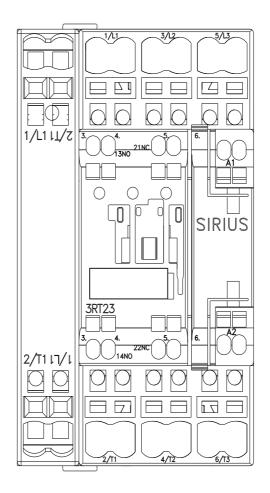
Further characteristics (e.g. electrical endurance, switching frequency)

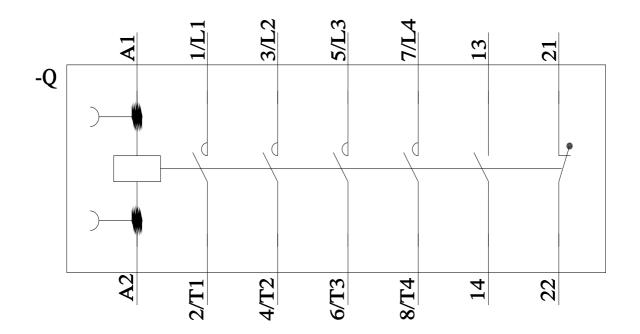
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-2AP00&objecttype=14&gridview=view1











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