SIEMENS

Data sheet

3RT2325-1AB00



contactor AC-1, 35 A, 400 V / 40 $^\circ\text{C},$ 4-pole, 24 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal

2.10 8/14	
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	5 000 Alls		
• 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	041/		
at 50 Hz rated value	24 V		
operating range factor control supply voltage rated value of magnet coil at AC	0.0 4.4		
• at 50 Hz	0.8 1.1		
apparent pick-up power of magnet coil at AC • at 50 Hz	77 VA		
inductive power factor with closing power of the coil			
• 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 contact	2		
instantaneous contact	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	1A			
at 600 V rated value	0.15 A			
operational current at DC-13	0.1077			
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				
 for short-circuit protection of the main circuit with two of coordination 1 required 	aC: 62 A (600 V 100 KA)			
 — with type of coordination 1 required — with type of assignment 2 required 	gG: 63 A (690 V, 100 kA) gG: 20 A (690 V, 100 kA)			
 with type of assignment 2 required for short-circuit protection of the auxiliary switch 	gG: 20 A (690 V, 100 KA) gG: 10 A (690 V, 1 kA)			
 for short-circuit protection of the auxiliary switch required 	90. 10 A (030 V, 1 KA)			
Installation/ mounting/ dimensions				
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted			
factoring method	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			
 side-by-side mounting 	Yes			
height	85 mm			
width	60 mm			
depth	97 mm			
required spacing				
with side-by-side mounting				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
 for grounded parts 				
— 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				
 for main current circuit for auxiliant and control circuit 	screw-type terminals			
 for auxiliary and control circuit at contactor for auxiliary contacts 	screw-type terminals			
at contactor for auxiliary contacts	Screw-type terminals			
 of magnet coil type of connectable conductor cross-sections for main 	Screw-type terminals			
contacts				
• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)			
 solid or stranded 	2x (1 2.5 mm²), 2x (2.5 10 mm²)			
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²			
connectable conductor cross-section for main				
contacts • solid	1 10 mm²			
solid solid or stranded	1 10 mm ²			
solid of stranded stranded	1 10 mm ²			
 stranded finely stranded with core end processing 	1 10 mm ²			

contacts • solid or stranded • finely stranded type of connectable • for auxiliary con — solid — solid — solid or str — finely stran • at AWG cables	with core end processing conductor cross-section ntacts	ns	0.5 2.5 mm ² 0.5 2.5 mm ² 2x (0.5 1.5 mm ²), 2x (2x (0.5 1.5 mm ²), 2x (2x (0.5 1.5 mm ²), 2x (2x (20 16), 2x (18 1			
 for main contact 			16 8			
 for auxiliary cor 	ntacts		20 14			
Safety related data						
 mirror contact a 	 product function mirror contact according to IEC 60947-4-1 T1 value for proof test interval or service life according to 		Yes 20 a			
	on the front according to	IEC	IP20			
•	the front according to I	EC 60529	finger-safe, for vertical contact from the front			
Communication/ Prot product function bu		-	No	_		
Certificates/ approval			NO			
General Product Ap					EMC	
Functional	CCC	<u>Confirmation</u>		EHC	RCM	
Functional Safety/Safety of Machinery	Declaration of Confor	mity	Test Certificates	3	Marine / Shipping	
<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	Type Test Certific ates/Test Repor	<u>c- Special Test Certific-</u> t <u>ate</u>	ABS	
Marine / Shipping					other	
BUREAU VERITAS		Lloyds Register us	RINA	KMRS RMRS	<u>Confirmation</u>	
other	Railway					
	<u>Vibration and Shock</u>					
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=3RT2325-1AB00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2325-1AB00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1AB00

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

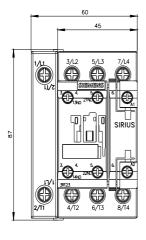
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2325-1AB00&lang=en

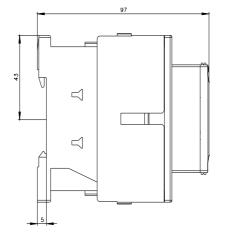
Characteristic: Tripping characteristics, I²t, Let-through current

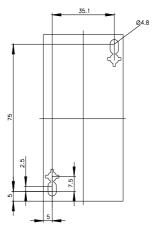
https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1AB00/char

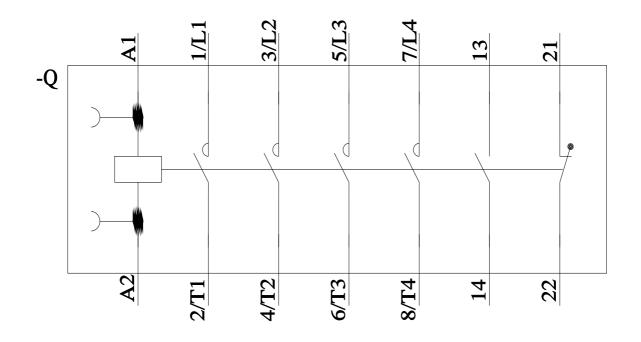
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-1AB00&objecttype=14&gridview=view1









last modified:

11/21/2022 🖸