SIEMENS

Data sheet

3RT2325-1AP00



Contactor, AC-1, 35 A/400 V/40 $^\circ\text{C},$ S0, 4-pole, 230 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	SO
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

	4.4			
at 220 V rated value	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				
 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			
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	screw-type terminals			
 for auxiliary and control circuit 	screw-type terminals			
 at contactor for auxiliary contacts 	Screw-type terminals			
 of magnet coil 	Screw-type terminals			
type of connectable conductor cross-sections				
for main contacts				
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)			
— solid or stranded	2x (1 2.5 mm ²), 2x (2.5 10 mm ²)			
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²			
at AWG cables for main contacts	2x (16 12), 2x (14 8)			
connectable conductor cross-section for main				
contacts				
• solid	1 10 mm²			
 solid or stranded 	1 10 mm²			
• stranded	1 10 mm ²			

connectable conduct contacts • solid or stranded • finely stranded type of connectable • for auxiliary con- solid solid or st solid or st finely stra • at AWG cables AWG number as con- section • for main contact • for auxiliary con- Safety related data product function • mirror contact a	with core end processing conductor cross-section ntacts randed nded with core end process for auxiliary contacts ded connectable conduct	iliary s ing or cross	1 10 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2x (0.5 1.5 mm ²), 2x (0.75 2x (20 1.5 mm ²), 2x (0.75 2x (20 16), 2x (18 14) 16 8 20 14 Yes 20 a	5 2.5 mm²)		
protection class IP	on the front according to	IEC	IP20			
60529 touch protection on	the front according to IE	C 60529 1	finger-safe, for vertical contact from the front			
Communication/ Prot						
product function bu		1	No			
Certificates/ approva					ENC	
General Product A	pproval				EMC	
() E	<u>Confirmation</u>	CCC CCC	U	EHC	RCM	
Functional Safety/Safety of Machinery	Declaration of Conform	nity	Test Certificates	Marine / Shipping		
<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	
Marine / Shipping					other	
B U R E A U VER ITAS		Lloyds Kegister urs	RINA	RMPS	<u>Confirmation</u>	
other	Railway					
VDE	Vibration and Shock					
Further information	walesdeenter (Catalogs	Brochurac)				

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=3RT2325-1AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2325-1AP00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1AP00

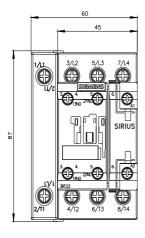
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2325-1AP00&lang=en</u>

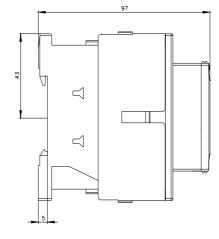
Characteristic: Tripping characteristics, I²t, Let-through current

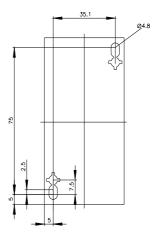
https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1AP00/char

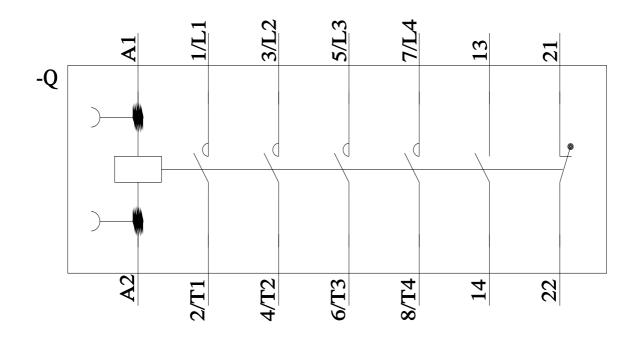
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-1AP00&objecttype=14&gridview=view1









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