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
insulation voltage	
 of main 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 (switching cycles)	
 of contactor typical 	10 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2009 00:00:00
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 during operation	10 95 %
relative humidity at 55 °C acc. 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 rated value 	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		
 at AC-4 at 400 V rated value 	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		
 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		
Iimited 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	7 000 1111		
type of voltage	AC		
	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 V·A		
inductive power factor with closing power of the coil			
• at 50 Hz	0.82		
apparent holding power of magnet coil at AC			
● at 50 Hz	9.8 V·A		
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 number of NO contacts for auxiliary contacts	1		
number of NO contacts for auxiliary contacts	1		
attachable	2		
• instantaneous contact	1		
operational current at AC-12 maximum	10 A		
operational current at AC-15			
at 230 V rated value	10 A		
 at 400 V rated value 	3 A		
 at 500 V rated value 			
• at 500 v rated value	2 A		
at 690 V rated value at 690 V rated value	2 A 1 A		

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			
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 protection of the auxiliary switch required	gG: 10 A (230 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 standard mounting rail according to DIN EN 60715		
 side-by-side mounting 	Yes		
	85 mm		
height			
height width	60 mm		
	60 mm 97 mm		
width			
width depth			
width depth required spacing • with side-by-side mounting — forwards	97 mm 10 mm		
width depth required spacing • with side-by-side mounting — forwards — upwards	97 mm 10 mm 10 mm		
width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	97 mm 10 mm 10 mm 10 mm		
width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	97 mm 10 mm 10 mm		
width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	97 mm 10 mm 10 mm 10 mm 0 mm		
width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	97 mm 10 mm 10 mm 10 mm 0 mm		
width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards	97 mm 10 mm 10 mm 10 mm 0 mm 10 mm		
width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — at the side	97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 6 mm		
width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards	97 mm 10 mm 10 mm 10 mm 0 mm 10 mm		
width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — torwards — downwards — for grounded parts — forwards — upwards — at the side — downwards • for live parts	97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm		
width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — torwards — of the side — downwards — at the side — downwards • for live parts — forwards	97 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — upwards — of the side — downwards — at the side — downwards • for live parts — forwards — upwards — upwards	97 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — downwards • for lowards — downwards — downwards	97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — downwards — upwards — at the side — downwards — at the side — downwards — upwards — at the side	97 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — downwards • for lowards — downwards — downwards	97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — downwards — upwards — at the side — downwards — at the side — downwards — upwards — at the side	97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — upwards — of the side — downwards • for live parts — forwards — upwards — the side — downwards • for live parts — forwards — upwards — upwards — upwards — upwards — at the side Connections/ Terminals	97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		

— 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				
at AWG cables for main contacts	2x (1 12), 2x (14 8)				
connectable conductor cross-section for main	ZX (10 12), ZX (14 0)				
contacts					
• solid	1 10 mm²				
 solid or stranded 	1 10 mm²				
stranded	1 10 mm²				
finely stranded with core end processing	1 10 mm²				
connectable conductor cross-section for auxiliary contacts					
 solid or stranded 	0.5 2.5 mm ²				
finely stranded with core end processing	0.5 2.5 mm²				
type of connectable conductor cross-sections					
 for auxiliary contacts 					
— solid	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)				
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)				
AWG number as coded connectable conductor cross section					
 for main contacts 	16 8				
 for auxiliary contacts 	20 14				
Safety related data					
product function mirror contact acc. to IEC 60947-4-1	Yes				
T1 value for proof test interval or service life acc. to IEC 61508	20 y				
protection class IP on the front acc. to IEC 60529	IP20				
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front				
Communication/ Protocol					
product function bus communication	No				
Certificates/ approvals					
General Product Approval		EMC	Functional Safety/Safety of Machinery		











Type Examination Certificate

Declaration of Conformity

Test Certificates

Marine / Shipping

UK Declaration of Conformity



Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping









Confirmation

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=3RT2325-1AP00

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

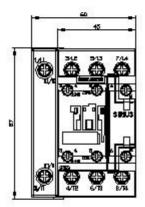
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RT2325-1AP00&lang=en

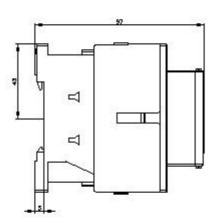
Characteristic: Tripping characteristics, I2t, Let-through current

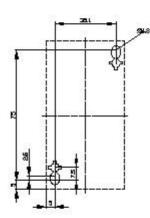
https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1AP00/char

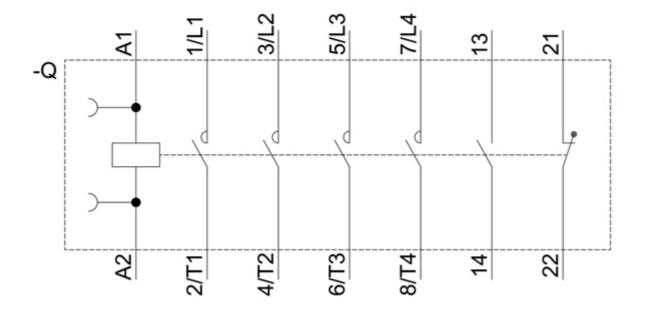
Further characteristics (e.g. electrical endurance, switching frequency)

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









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