SIEMENS

Data sheet 3RT2325-2AP60



Contactor, AC-1, 35 A/400 V/40 $^{\circ}$ C, S0, 4-pole, 220 V AC/50 Hz, 240 V/60 Hz, 1 NO+1 NC, Spring-type 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 (switching 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	
— 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	
 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	7.0	
• at 50 Hz rated value	220 V	
at 60 Hz rated value	240 V	
operating range factor control supply voltage rated	270 V	
value of magnet coil at AC		
• at 50 Hz	0.8 1.1	
• at 60 Hz	0.8 1.1	
apparent pick-up power of magnet coil at AC	00.14	
• at 50 Hz	68 VA	
• at 60 Hz	67 VA	
inductive power factor with closing power of the coil		
● at 50 Hz	0.72	
• at 60 Hz	0.74	
apparent holding power of magnet coil at AC		
• at 50 Hz	7.9 VA	
● at 60 Hz	6.5 VA	
inductive power factor with the holding power of the coil		
● at 50 Hz	0.25	
● at 60 Hz	0.28	
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		
	2	
instantaneous contact	2 1	

operational current at AC 12 maximum	10 A		
operational current at AC-12 maximum	10 A		
operational current at AC-15	40.4		
• at 230 V rated value	10 A		
at 400 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			
 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 standard mounting rail according to DIN EN 60715		
side-by-side mounting	Yes		
height	102 mm		
width	60 mm		
depth	97 mm		
•	97 Hill		
required spacing			
 with side-by-side mounting 			
	10 mm		
— forwards	10 mm		
forwardsupwards	10 mm		
forwardsupwardsdownwards	10 mm 10 mm		
forwardsupwardsdownwardsat the side	10 mm		
 forwards upwards downwards at the side for grounded parts 	10 mm 10 mm 0 mm		
 forwards upwards downwards at the side for grounded parts forwards 	10 mm 10 mm 0 mm		
 forwards upwards downwards at the side for grounded parts forwards upwards 	10 mm 10 mm 10 mm 10 mm		
 — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side 	10 mm 10 mm 10 mm 10 mm 6 mm		
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards 	10 mm 10 mm 10 mm 10 mm		
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts 	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm		
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards 	10 mm 10 mm 10 mm 10 mm 6 mm		
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards 	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards 	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards 	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm		

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 contacts 		
— solid	2x (1 10 mm²)	
— solid or stranded	2x (1 10 mm²)	
 finely stranded with core end processing 	2x (1 6 mm²)	
 finely stranded without core end processing 	2x (1 6 mm²)	
at AWG cables for main contacts	2x (18 8)	
connectable conductor cross-section for main contacts		
• solid	1 10 mm²	
 solid or stranded 	1 10 mm²	
stranded	1 10 mm²	
 finely stranded with core end processing 	1 6 mm²	
finely stranded without core end processing	1 6 mm²	
connectable conductor cross-section for auxiliary contacts		
 solid or stranded 	0.5 2.5 mm²	
 finely stranded with core end processing 	0.5 1.5 mm²	
finely stranded without core end processing	0.5 2.5 mm²	
type of connectable conductor cross-sections		
 for auxiliary contacts 		
— solid	2x (0.5 2.5 mm²)	
— solid or stranded	2x (0.5 2.5 mm²)	
 finely stranded with core end processing 	2x (0.5 1.5 mm²)	
 finely stranded without core end processing 	2x (0.5 2.5 mm²)	
at AWG cables for auxiliary contacts	2x (20 14)	
AWG number as coded connectable conductor cross section		
 for main contacts 	18 8	
 for auxiliary contacts 	20 14	
Safety related data		
product function		
 mirror contact according to IEC 60947-4-1 	Yes	
T1 value for proof test interval or service life according to IEC 61508	20 y	
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
Communication/ Protocol		
product function bus communication	No	
Certificates/ approvals		
General Product Approval		EMC





Confirmation







Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates	Marine / Shipping
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Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping













other

Confirmation



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=3RT2325-2AP60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2325-2AP60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-2AP60

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2325-2AP60&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-2AP60/char}$

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-2AP60&objecttype=14&gridview=view1

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