SIEMENS

Data sheet

3RT2336-1AF00



Contactor, AC-1, 60 A/400 V/40 $^\circ\text{C},$ S2, 4-pole, 110 V AC/50 Hz, 1 NO+1 NC, screw terminal

weadwat because manage	SIRIUS
product brand name	
product designation	Contactor
product type designation	3RT23
General technical data	
size of contactor	S2
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 	12.8 W
 at AC in hot operating state per pole 	3.2 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	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 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)	10/01/2014
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-40 +70 °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 at AC-1 	60 A			
 at AC-1 up to 690 V at ambient temperature 40 °C rated value 	60 A			
— up to 690 V at ambient temperature 60 °C rated value	55 A			
• at AC-3				
— at 400 V rated value	38 A			
minimum cross-section in main circuit at maximum AC-1 rated value	16 mm ²			
short-time withstand current in cold operating state up to 40 $^{\circ}\mathrm{C}$				
 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	700 1/h			
Control circuit/ Control				
type of voltage	AC			
type of voltage of the control supply voltage	AC			
control supply voltage at AC				
• at 50 Hz rated value	110 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	190 VA			
inductive power factor with closing power of the coil				
• at 50 Hz	0.72			
apparent holding power of magnet coil at AC				
• at 50 Hz	16 VA			
inductive power factor with the holding power of the coil				
• at 50 Hz	0.37			
closing delay	40			
• at AC	10 80 ms			
opening delay	10 19 mg			
• at AC arcing time	10 18 ms 10 20 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	1			
operational current at AC-12 maximum	10 A			
operational current at AC-12 maximum				
at 230 V rated value	10 A			
at 400 V rated value	3 A			
at 400 V rated value at 500 V rated value	2 A			
at 500 V rated value at 690 V rated value	1 A			
operational current at DC-12				
at 24 V rated value	10 A			
at 24 V rated value 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	1000 / D000		
contact rating of auxiliary contacts according to UL	A600 / P600		
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: 160 A (690 V, 100 kA)		
 — with type of assignment 2 required 	gG: 63 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	114 mm		
width	75 mm		
depth	130 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		
	TO TIM		
— downwards	10 mm		
— downwards — at the side			
	10 mm		
— at the side	10 mm		
— at the side Connections/ Terminals	10 mm		
at the side Connections/ Terminals type of electrical connection	10 mm 6 mm		
 — at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit 	10 mm 6 mm screw-type terminals screw-type terminals		
at the side Connections/ Terminals type of electrical connection • for main current circuit	10 mm 6 mm screw-type terminals		
 — at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil 	10 mm 6 mm screw-type terminals screw-type terminals Screw-type terminals		
 at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts 	10 mm 6 mm screw-type terminals screw-type terminals Screw-type terminals		
 — at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections 	10 mm 6 mm screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals		
 at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded 	10 mm 6 mm screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²)		
 at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts 	10 mm 6 mm screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals		

connectable conduct contacts	tor cross-section for	main					
solid or stranded			1 50 mm²				
 finely stranded with core end processing 			1 35 mm²				
connectable conduct		-					
solid or stranded			0.5 2.5 mm²				
 finely stranded with core end processing 			0.5 2.5 mm ²				
 finely stranded without core end processing 		0.5 2.5 mm²					
type of connectable conductor cross-sections			0.0 2.0 mm				
 for auxiliary con 	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) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
	ded with core end pro	cessing	2x (0.5 1.5 mm ²), 2x (0.7				
	for auxiliary contacts	g	2x (20 16), 2x (18 14)				
AWG number as cod		luctor cross					
section							
 for main contact 	s		18 1				
 for auxiliary con- 	tacts		20 14				
Safety related data							
product function							
•	ccording to IEC 60947	-4-1	Yes				
	-		No				
5-1	 positively driven operation according to IEC 60947- 5-1 						
T1 value for proof test interval or service life according to IEC 61508		20 у					
protection class IP o 60529	protection class IP on the front according to IEC 60529		IP20				
touch protection on	the front according t	o IEC 60529	finger-safe, for vertical conta	act from the front			
Communication/ Proto	ocol						
product function bus communication			No				
Certificates/ approvals							
General Product Ap							
(SP)	<u>Confirmation</u>			<u>KC</u>	EHC		
EMC	Functional Safety/Safety of Machinery	Declaration of Conformity		Test Certificates			
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>		
Marine / Shipping							
ABS	BUREAU VERITAS		Hoyds Register urs	PRS	RINA		



Confirmation

Vibration and Shock

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=3RT2336-1AF00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2336-1AF00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1AF00

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

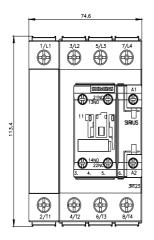
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2336-1AF00&lang=en

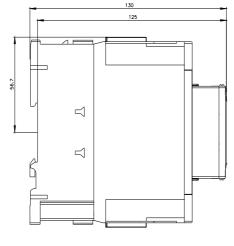
Characteristic: Tripping characteristics, I²t, Let-through current

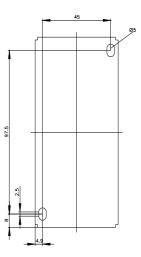
https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1AF00/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2336-1AF00&objecttype=14&gridview=view1







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