SIEMENS

Data sheet

3RT2336-1AV00



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

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	51(125
	\$2
size of contactor	52
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	95 %
maximum	
Main circuit	
	4
Main circuit	4 4

 at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 	60 A		
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 mm²		
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		
Imited to 30 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value		
Imited to 60 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency	5 000 4/h		
at AC	5 000 1/h		
operating frequency at AC-1 maximum Control circuit/ Control	700 1/h		
type of voltage	AC		
type of voltage of the control supply voltage	AC		
 control supply voltage at AC at 50 Hz rated value 	400 V		
operating range factor control supply voltage rated	400 V		
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			
• at AC	10 80 ms		
opening delay	40 40		
• at AC	10 18 ms		
arcing time control version of the switch operating mechanism	10 20 ms Standard A1 - A2		
Auxiliary circuit	Standard AT - A2		
	1		
number of NC contacts for auxiliary contacts attachable 	1 2		
instantaneous contact	2		
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	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	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 conduc contacts	tor cross-section for	main				
 solid or strande 	d		1 50 mm²			
 finely stranded 	 finely stranded with core end processing 					
connectable conduc contacts	tor cross-section for	auxiliary				
 solid or stranded 		0.5 2.5 mm²				
 finely stranded with core end processing 			0.5 2.5 mm²			
 finely stranded 	 finely stranded without core end processing 		0.5 2.5 mm²			
type of connectable	type of connectable conductor cross-sections					
 for auxiliary cor 	 for auxiliary contacts 					
— solid		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
— solid or str	— solid or stranded		2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
— finely strar	nded with core end pro	cessing	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 coo	ded connectable con	ductor cross				
section						
 for main contact 	ts		18 1			
 for auxiliary cor 	ntacts		20 14			
Safety related data						
product function						
 mirror contact a 	according to IEC 60947	′-4-1	Yes			
 positively driver 	n operation according t	o IEC 60947-	No			
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 cor	ntact from the front		
Communication/ Prot	ocol		-			
product function bu			No			
Certificates/ approval						
General Product Ap						
General Product Ap	piovai					
(T)	(m)	Confirmatio	•	KC	гпг	
	<u>u</u>		জ		t H L	
CSA	ccc		UL			
	Functional					
EMC	Safety/Safety of	Declaration o	f Conformity	Test Certificates		
	Machinery					
-						
A	<u>Type Examination</u> <u>Certificate</u>	<i>c c</i>	UK CA	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific-	
<u>(@)</u>	Certificate		ZÒ	ales/rest Report	ate	
RCM		EG-Konf.	CH			
Marine / Shipping						
	62.78					
Start Wast	<u>a s</u> e	<u>ئ</u> گ	Lloyds	(33)		
a strange		DNV	Register			
ABS	BUREAU	DNV	LRS	PRS	RINA	
	VERITAS					
	TENTING					
Marine / Shinning		Railway	Dangerous Good			
Marine / Shipping	other	Railway	Dangerous Good			



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=3RT2336-1AV00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2336-1AV00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1AV00

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2336-1AV00&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1AV00/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2336-1AV00&objecttype=14&gridview=view1

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