SIEMENS

Data sheet

3RT2336-1AP00



Contactor, AC-1, 60 A/400 V/40 $^\circ\text{C},$ S2, 4-pole, 230 V AC/50 Hz, 1 NO+1 NC, screw terminal

8/14				
product brand name	SIRIUS			
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 (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)	10/01/2014			
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 	60 A			

• at AC-1					
- up to 690 V at ambient temperature 40 °C	60 A				
rated value					
— up to 690 V at ambient temperature 60 °C	55 A				
rated value					
• at AC-3					
— at 400 V rated value	38 A				
minimum cross-section in main circuit at maximum AC-1	16 mm ²				
rated value					
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	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	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	400.1/4				
• at 50 Hz	190 VA				
inductive power factor with closing power of the coil	0.70				
• 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					
● at AC	10 18 ms				
arcing time	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-15 at 230 V rated value 	10 A				
 at 200 V rated value 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				

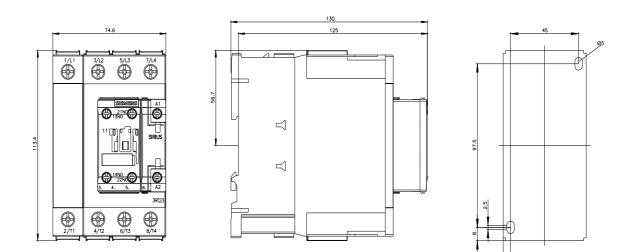
a at 48 \/ rated value	2 A			
 at 48 V rated value at 110 V rated value 	2 A 1 A			
at 125 V rated value	0.9 A			
at 220 V rated value	0.3 A			
• at 600 V rated value	0.1 A			
design of the miniature circuit breaker for short-circuit	gG: 10 A (230 V, 400 A)			
protection of the auxiliary switch required				
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 / P600			
Short-circuit protection				
product function short circuit protection	No			
design of the fuse link				
 for short-circuit protection of the main circuit 	~C. 1CO A (COO) (100 kA)			
 with type of coordination 1 required with type of assignment 2 required 	gG: 160 A (690 V, 100 kA)			
 — with type of assignment 2 required for short-circuit protection of the auxiliary switch 	gG: 63 A (690 V,100 kA)			
required	gG: 10 A (690 V, 1 kA)			
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			
 side-by-side mounting 	60715 Yes			
height	114 mm			
width	75 mm			
depth	130 mm			
required spacing	100 mm			
• with side-by-side mounting				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
• for grounded parts	0 mm			
— 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 or stranded	2x (1 35 mm²), 1x (1 50 mm²)			
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)			
 at AWG cables for main contacts 	2x (18 2), 1x (18 1)			
connectable conductor cross-section for main				
contacts	1 50 mm ²			
solid or stranded	1 50 mm ²			
finely stranded with core end processing connectable conductor cross section for auxiliary	1 35 mm²			
connectable conductor cross-section for auxiliary contacts				
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 mm ²			
type of connectable conductor cross-sections				
y,				

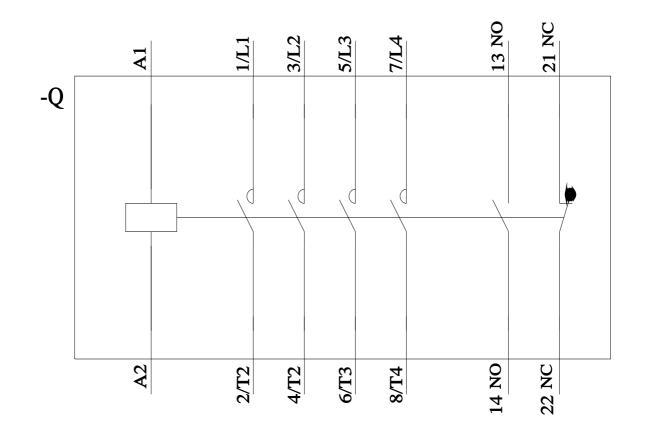
 at AWG cables 		-	2x (0. 2x (0.	5 1.5 mm²), 2x (0.75 5 1.5 mm²), 2x (0.75 5 1.5 mm²), 2x (0.75 0 16), 2x (18 14)	5 2.5 mm²)		
for main contacfor auxiliary cor	for main contacts			18 1 20 14			
Safety related data				20 14			
-	<u>.</u>		_				
 product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947- 5-1 		Yes No					
T1 value for proof tes IEC 61508	T1 value for proof test interval or service life according to IEC 61508		20 a				
protection class IP c 60529	on the front according	to IEC	IP20				
touch protection on	the front according to	IEC 60529	finger	-safe, for vertical conta	act from the front		
Communication/ Prot			J				
product function but			No				
Certificates/ approval							
General Product Ap							
General Flouuct Ap	provar						
		<u>Confirmatio</u>	<u>n</u>	(UL) UL	KC	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration o	of Confc	ormity	Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.		UK CA	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	
Marine / Shipping							
ABS	BUREAU VERITAS	DNV DNV		Lloyd's Register urs	PRS	RINA	
Marine / Shipping	other	Railway		Dangerous Good			
RMRS	<u>Confirmation</u>	Vibration and S	<u>Shock</u>	<u>Transport Informa-</u> tion			
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=3RT2336-1AP00 Cax online generator							

Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2336-1AP00 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1AP00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2336-1AP00&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1AP00/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2336-1AP00&objecttype=14&gridview=view1





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