SIEMENS

Data sheet

3RT2336-1AC20



contactor AC-1, 60 A, 400 V / 40 $^\circ\text{C},$ 4-pole, 24 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal

674				
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	00 A			
— at 400 V rated value	38 A 16 mm²			
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 °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 AC			
type of voltage of the control supply voltage control supply voltage at AC	AU			
• at 50 Hz rated value	24 V			
• at 60 Hz rated value	24 V 24 V			
operating range factor control supply voltage rated				
value of magnet coil at AC				
• at 50 Hz	0.8 1.1			
● at 60 Hz	0.85 1.1			
apparent pick-up power of magnet coil at AC				
• at 50 Hz	210 VA			
• at 60 Hz	188 VA			
inductive power factor with closing power of the coil	0.00			
• at 50 Hz	0.69			
• at 60 Hz	0.65			
 apparent holding power of magnet coil at AC at 50 Hz 	17.2 VA			
• at 50 Hz	16.5 VA			
inductive power factor with the holding power of the				
coil				
● at 50 Hz	0.36			
• at 60 Hz	0.39			
closing delay				
• at AC	10 80 ms			
opening delay • at AC	10 18 ms			
• 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-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	10.4			
at 24 V rated value	10 A 6 A			
 at 48 V rated value at 60 V rated value 	6 A			
al UU V Taltu Value				

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 / 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	<u></u>				
Installation/ mounting/ dimensions					
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted				
STATES STATES	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				
	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				
— 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 mm ²), 1x (1 35 mm ²)				
connectable conductor cross-section for main contacts					
solid or stranded	1 50 mm²				
 finely stranded with core end processing 	1 35 mm ²				
connectable conductor cross-section for auxiliary					

 finely stranded type of connectable for auxiliary con — solid — solid or str — finely strar at AWG cables 	with core end processir without core end proce conductor cross-sect tacts anded nded with core end proc for auxiliary contacts ded connectable cond	ssing tions	0.5 2 0.5 2 2x (0.5 2x (0.5 2x (0.5	2.5 mm² 2.5 mm² 2.5 mm² 5 1.5 mm²), 2x (0.75 5 1.5 mm²), 2x (0.75 5 1.5 mm²), 2x (0.75 16), 2x (18 14)	5 2.5 mm²)			
 for auxiliary con 			20 14					
Safety related data								
	nccording to IEC 60947 n operation according to		Yes No					
IEC 61508	t interval or service life	-	20 a					
60529	on the front according		IP20					
	the front according to	DIEC 60529	finger-s	finger-safe, for vertical contact from the front				
Communication/ Prote product function bus			No	_	_			
Certificates/ approval			NO					
General Product Ap								
SP CM	<u>Confirmation</u>	CCC			KC	EHC		
EMC	Functional Safety/Safety of Machinery	Declaration of Conformity		rmity	Test Certificates			
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA		CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate		
Marine / Shipping								
ABS	BUREAU VERITAS			Lloyds Kegister Lirs	PRS	RINA		
Marine / Shipping	other	Railway		Dangerous Good				
RMRS	<u>Confirmation</u>	Vibration and S	Shock	<u>Transport Informa-</u> <u>tion</u>				
Further information	Further information Information on the packaging							

https://support.industry.siemens.com/cs/ww/en/view/109813875 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=3RT2336-1AC20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2336-1AC20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1AC20

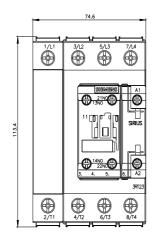
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2336-1AC20&lang=en

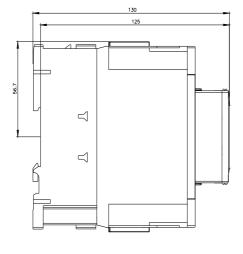
Characteristic: Tripping characteristics, I²t, Let-through current

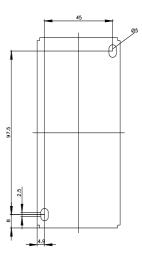
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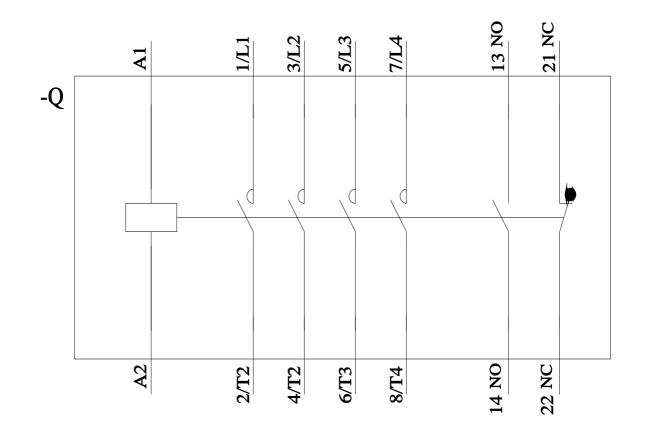
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2336-1AC20&objecttype=14&gridview=view1









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