SIEMENS

Data sheet

3RT2336-1NB30



Contactor, AC-1, 60 A/400 V/40 $^\circ\text{C},$ S2, 4-pole, 20-33 V AC/DC, with varistor, 1 NO+1 NC, screw terminal

product brand name SIRIUS product designation Contactor product type designation SRT23 General technical data SZ size of contactor SZ infunction module for communication No • auxillary switch Yes opwer loss [W] for rated value of the current		
product type designation 3RT23 General technical data	product brand name	SIRIUS
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 • without load current share typical 1W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 680 V • of main circuit rated value 64 V • of main circuit rated value 6 kV stack resistance 6 kV • of auxiliary circuit rated value 6 kV stock resistance at rectangular impulse 7.7g / 5 ms, 4.5g / 10 ms • at DC 7.7g / 5 ms, 7g / 10 ms • at DC 12g / 5 ms, 7g / 10 ms • at DC 12g / 5 ms, 7g / 10 ms • at DC 10 000 000 • of contactor typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 00/12014 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -40 +70 °C • during storage -55 +80 °C relative hum	product designation	Contactor
size of contactor S2 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 12.8 W • at AC in hot operating state per pole 3.2 W • without load current share typical 1 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 64 KV • of main circuit rated value 64 KV • of main circuit rated value 64 KV • of auxiliary circuit rated value 64 KV • of auxiliary circuit rated value 64 KV • at AC 7.7g / 5 ms, 4.5g / 10 ms • at AC 12g / 5 ms, 7g / 10 ms • at AC 12g / 5 ms, 7g / 10 ms • at AC 12g / 5 ms, 7g / 10 ms • at DC 10 000 000 • of contactor typical 10 000 000 • of contactor typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 00/2014 Ambient conditions 2000 m instalation altitude at height above sea level maximum 2 000 m ambient temperature -40 +70	product type designation	3RT23
product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 12.8 W • at AC in hot operating state 12.8 W • at AC in hot operating state per pole 3.2 W • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 680 V • of auxiliary contortol circuit with degree of pollution 3 rated value 680 V • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 7.7g / 5 ms, 4.5g / 10 ms • at AC 7.7g / 5 ms, 7g / 10 ms • at DC 12g / 5 ms, 7g / 10 ms • at DC 12g / 5 ms, 7g / 10 ms • at DC 12g / 5 ms, 7g / 10 ms • of contactor typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor typical 2000 m ambient conditions 2000 m installation altitude at height	General technical data	
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• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-40 +70 °C• during storage relative humidity minimum10 %10 %95 %	mechanical service life (switching cycles)	
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• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum 95 %	 during operation 	-40 +70 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 %	during storage	-55 +80 °C
maximum	relative humidity minimum	10 %
Main circuit		95 %
	Main circuit	

number of poloo for main surrout size	4		
number of poles for main current circuit	4		
number of NO contacts for main contacts	4		
operational current	20 A		
 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 3 s switching at zero current maximum limited to 10 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 limited to 30 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value		
 limited to 50 s switching at zero current maximum limited to 60 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency			
• at AC	1 500 1/h		
• at DC	1 500 1/h		
operating frequency at AC-1 maximum	700 1/h		
Control circuit/ Control			
	AC/DC		
type of voltage	AC/DC		
type of voltage of the control supply voltage	ACIDE		
 control supply voltage at AC at 50 Hz rated value 	20 33 V		
at 50 Hz rated value at 60 Hz rated value	20 33 V 20 33 V		
	20 33 V		
control supply voltage at DC rated value 	20 33 V		
operating range factor control supply voltage rated	20 55 V		
value of magnet coil at DC			
• initial value	0.8		
• full-scale value	1.1		
operating range factor control supply voltage rated			
value of magnet coil at AC			
• at 50 Hz	0.8 1.1		
• at 60 Hz	0.8 1.1		
design of the surge suppressor	with varistor		
inrush current peak	3 A		
duration of inrush current peak	50 µs		
locked-rotor current mean value	1 A		
locked-rotor current peak	2.6 A		
duration of locked-rotor current	230 ms		
holding current mean value	40 mA		
apparent pick-up power of magnet coil at AC			
● at 50 Hz	40 VA		
• at 60 Hz	40 VA		
apparent holding power of magnet coil at AC			
• at 50 Hz	2 VA		
• at 60 Hz			
	2 VA		
closing power of magnet coil at DC	23 W		
closing power of magnet coil at DC holding power of magnet coil at DC			
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	23 W 1 W		
closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC	23 W 1 W 35 110 ms		
closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC	23 W 1 W		
closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay	23 W 1 W 35 110 ms 35 110 ms		
closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC	23 W 1 W 35 110 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 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	40.4		
at 24 V rated value	10 A 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 			
 — 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 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 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	10 mm		
— forwards	10 mm		
— upwards	10 mm		
— downwards — at the side	10 mm 0 mm		
 at the side for grounded parts 	U TIIIT		
 for grounded parts forwards 	10 mm		
TOTWATAG	IV IIIII		

	10			
— upwards	10 mm			
— at the side	6 mm			
— downwards	10 mm			
for live parts	40			
— 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				
 solid or stranded 	1 50 mm²			
 finely stranded with core end processing 	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 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 1.5 mm²), 2x (0.75 2.5 mm²)			
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 finely stranded with core end processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)			
AWG number as coded connectable conductor cross section				
 for main contacts 	18 1			
 for auxiliary contacts 	20 14			
Safety related data				
product function				
 mirror contact according to IEC 60947-4-1 	Yes			
 positively driven operation according to IEC 60947- 5-1 	No			
T1 value for proof test interval or service life according to IEC 61508	20 у			
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				
Confirmation	п КС ГПГ			
(m)	(ŸL) FHI			
CSA CCC				

EMC

Functional Safety/Safety of

Declaration of Conformity

Test Certificates

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	Machinery					
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	
Marine / Shipping						
ABS	BUREAU VERITAS		Lloyd's Register uis	PRS	RINA	
Marine / Shipping	other	Railway	Dangerous Good			
KMRS	<u>Confirmation</u>	Vibration and Shock	<u>Transport Informa-</u> <u>tion</u>			
Further information Information- and Do https://www.siemens	ownloadcenter (Catalo .com/ic10	ogs, Brochures,)				
Industry Mall (Onlin	e ordering system)	n/Catalog/product?mlfb=	3RT2336-1NB30			
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2336-1NB30 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1NB30 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2336-1NB30⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1NB30/char Further characteristics (e.g. electrical endurance, switching frequency)						
		index.aspx?view=Search		30&objecttype=14&gridv	<u>view=view1</u>	

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