SIEMENS

Data sheet

3RT2325-2BB40



Contactor, AC-1, 35 A/400 V/40 $^\circ\text{C},$ S0, 4-pole, 24 V DC, 1 NO+1 NC, Spring-type terminal

product brand name	SIRIUS
product brand name	Contactor
product designation	
product type designation	3RT23
General technical data	
size of contactor	SO
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 	7.6 W
 at AC in hot operating state per pole 	1.9 W
without load current share typical	5.9 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 DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 10g / 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)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °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

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operational current	
 at AC-1 at 400 V at ambient temperature 40 °C 	35 A
rated value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	35 A
	30 A
 — up to 690 V at ambient temperature 60 °C rated value 	50 A
• at AC-3	
— at 400 V rated value	15.5 A
 at AC-4 at 400 V rated value 	15.5 A
minimum cross-section in main circuit at maximum AC-1	10 mm ²
rated value	
operating power	
 at AC-3 at 400 V rated value 	7.5 kW
• at AC-4 at 400 V rated value	7.5 kW
short-time withstand current in cold operating state	
up to 40 °C	
Imited 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 DC	1 500 1/h
operating frequency at AC-1 maximum	1 000 1/h
Control circuit/ Control	
type of voltage	DC
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
• initial value	0.8
• full-scale value	1.1
full-scale value closing power of magnet coil at DC	1.1 5.9 W
• full-scale value closing power of magnet coil at DC holding power of magnet coil at DC	1.1
full-scale value closing power of magnet coil at DC holding power of magnet coil at DC closing delay	1.1 5.9 W 5.9 W
full-scale value closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC	1.1 5.9 W
full-scale value closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay	1.1 5.9 W 5.9 W 50 170 ms
full-scale value closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC	1.1 5.9 W 5.9 W 50 170 ms 15 18 ms
full-scale value closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time	1.1 5.9 W 5.9 W 50 170 ms 15 18 ms 10 10 ms
• full-scale value closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism	1.1 5.9 W 5.9 W 50 170 ms 15 18 ms
• full-scale value closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit	1.1 5.9 W 5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2
• full-scale value closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts	1.1 5.9 W 5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2 1
• full-scale value closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable	1.1 5.9 W 5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2 1 2
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• full-scale value closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts	1.1 5.9 W 5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2 1 2 1 1 1
full-scale value closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay 	1.1 5.9 W 5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2 1 2 1 1 2
full-scale value closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay 	1.1 5.9 W 5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2 1 2 1 1 2 1 1
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• full-scale value closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact • attachable • instantaneous contact operational current at AC-12 maximum operational current at AC-15	1.1 5.9 W 5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2 1 1 2 1 1 1 2 1 1 1 2 1 1 2 1
• full-scale value closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	1.1 5.9 W 5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1
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• at 125 V relativation 2 A • at 260 V relativation 1 A • at 600 V relativation 0.15 A • or 20 V relativation 10 A • at 24 V roled value 10 A • at 24 V roled value 10 A • at 320 V relativation 0.3 A • at 220 V relativation 0.1 A design of the minitum carcult breaker for short-circuit protection 0.1 A Contact reliability of auxiliary contacts 1 fauly switching per 100 million (17 V, 1 mA) UCCSA rankings 1 fauly switching per 100 million (17 V, 1 mA) UCCSA ranking of the fause link - or the reliability of auxiliary contacts • for short-circuit protection No • for short-circuit protection No festening method - convertical mounting surface: can be tilted • safeb-yoide mounting - convertical mounting surface: can be tilted • for short-circuit protection - convertical mounting surface: can be tilted • for short-circuit protection - convertical m		
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with type of coordination 1 required gG: 63 A (680 V, 100 kA) with type of assignment 2 required gG: 20 A (680 V, 100 kA) in or short-circuit protection of the auxiliary switch required gG: 10 A (680 V, 1 kA) installation/mounting/dimensions +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface fastening method screw and nap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting Yes height 102 mm width 60 mm depth 102 mm erquired spacing 0 • with side-by-side mounting -forwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - otowards 10 mm - otowards 10 mm - upwards 1	-	
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mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.8° on vertical mounting surface screw and backward by +/- 22.8° on vertical mounting screw and back terminals screw an	required	
fastening method forward and backward by +/. 22.5° on vertical mounting surface fastening method screw and snap-on mounting on 0.35 mm standard mounting rail according to DIN EN 60715 height 102 mm width 60 mm depth 107 mm required spacing 0 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm - at the side 0 mm - at the side 0 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - at the side 6 mm	Installation/ mounting/ dimensions	
fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 102 mm width 60 mm depth 107 mm required spacing 0 mm • with side-by-side mounting 0 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm 0 ownwards 10 mm - at the side 6 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm Ownmetds 10 mm - at the side 6 mm ownwards 10 mm - at the side 6 mm of or main current circuit spring-loaded terminals i or consin current circuit spring-loaded terminals	mounting position	
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- forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 0 mm - at the side 0 mm - for grounded parts 10 mm - forwards 10 mm - forwards 10 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - for auxiliary and control circuit spring-loaded terminals - for auxiliary and control circuit spring-loaded terminals - of magnet coil Spring-type terminals </td <td></td> <td></td>		
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type of electrical connection spring-loaded terminals • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections Spring-type terminals • for main contacts - solid - solid or stranded 2x (1 10 mm²) - finely stranded with core end processing 2x (1 6 mm²)	Connections/ Terminals	
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	 finely stranded without core end processing 	2x (1 6 mm²)

 at AWG cables 	for main contacts		2x (18 8)			
	ctor cross-section for		2x (10 0)			
contacts						
 solid 			1 10 mm²			
 solid or strande 	ed		1 10 mm²			
 stranded 			1 10 mm²			
 finely stranded 	with core end processir	5	1 6 mm²			
	without core end proces		1 6 mm²			
connectable conduc contacts	ctor cross-section for	auxiliary				
solid or stranded			0.5 2.5 mm²			
• finely stranded with core end processing		ng	0.5 1.5 mm²			
finely stranded without core end processing		<u>J</u>	0.5 2.5 mm²			
type of connectable	conductor cross-sect	tions				
 for auxiliary contacts 						
— solid			2x (0.5 2.5 mm²)			
— solid or sti	randed		2x (0.5 2.5 mm²)			
	nded with core end proc		2x (0.5 1.5 mm²)			
	nded without core end p	-	2x (0.5 2.5 mm²)			
	for auxiliary contacts		2x (20 14)			
	ded connectable cond	uctor cross				
section			10 0			
 for main contact for auxiliant contact 			188			
for auxiliary con		_	20 14			
Safety related data		_		_		
product function						
	according to IEC 60947-		Yes			
T1 value for proof tes IEC 61508	st interval or service life	according to	20 у			
	on the front according		IP20			
60529			11 20			
tough protection						
	the front according to	DIEC 60529	finger-safe, for vertical cont	act from the front		
Communication/ Prot	ocol	DIEC 60529	finger-safe, for vertical cont	act from the front		
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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=3RT2325-2BB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2325-2BB40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-2BB40

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2325-2BB40&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-2BB40/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-2BB40&objecttype=14&gridview=view1

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