SIEMENS

Data sheet

3RT2325-1BB40



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

and we have a second	
product brand name	SIRIUS
product designation	Contactor
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

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 W
at AC-4 at 400 V rated value	7.5 W
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 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
closing power of magnet coil at DC	5.9 W
holding power of magnet coil at DC	5.9 W
closing delay	
• at DC	50 170 ms
opening delay	
at DC	15 18 ms
arcing time	10 10 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	
 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 	0.3 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.3 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 / Q600
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 with type of coordination 2 required 	gG: 63 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 20 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	85 mm
width	60 mm
depth	107 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 type of connectable conductor cross costions	Screw-type terminals
type of connectable conductor cross-sections	
for main contacts	$0 + (4 - 0.5 + mm^2) + 0 + (0.5 - 40 - 2)$
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
	$\Omega_{11}(4 = 0.5 \text{ mm}^2)$ $\Omega_{11}(0.5 = 40 = 3)$
— solid or stranded	2x (1 2.5 mm ²), 2x (2.5 10 mm ²)
	2x (1 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (16 12), 2x (14 8)

	ctor cross-section for ma	ain				
contacts			4 40 0			
 solid solid or stranded 			1 10 mm ²			
	d		1 10 mm ²			
stranded			1 10 mm ²			
	with core end processing		1 10 mm²			
connectable conduc	ctor cross-section for au	ixiliary				
 solid or strande 	bd		0.5 2.5 mm²			
 finely stranded with core end processing 			0.5 2.5 mm²			
-	conductor cross-sectio	ons	0.0 2.0 mm			
 for auxiliary cor 						
- solid			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
— solid — solid or stranded		2x (0.5 1.5 mm ²), 2x (0.75				
			2x (0.5 1.5 mm ²), 2x (0.75			
 finely stranded with core end processing at AWG cables for auxiliary contacts 			2x (0.3 1.3 min), 2x (0.73 2x (20 16), 2x (18 14)	· 2.5 mm)		
	ded connectable conduc	stor cross	2x (20 10), 2x (10 14)			
section						
for main contact	ts		16 8			
 for auxiliary cor 			20 14			
Safety related data		- - -				
product function		_				
•	according to IEC 60047 4	1	Voc			
	according to IEC 60947-4-		Yes			
IEC 61508	t interval or service life ac	cording to	20 y			
	on the front according to	o IEC	IP20			
	the front according to II	EC 60529	finger-safe, for vertical conta	ct from the front		
Communication/ Prot	-					
product function bu		_	No			
•			NO			
Certificates/ approval	s					
Certificates/ approval		_			FNO	
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Further information

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