SIEMENS

Data sheet

3RT2326-2BF40



Contactor, AC-1, 40 A/400 V/40 $^\circ\text{C},$ S0, 4-pole, 110 V DC, 1 NO+1 NC, Spring-type terminal

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	
size of contactor	S0
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	9.6 W
 at AC in hot operating state per pole 	2.4 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 	40 A
rated value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	40 A
	35 A
— up to 690 V at ambient temperature 60 °C rated value	55 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 mm²
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	
 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	110 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
	3 A
 at 110 V rated value 	071

• 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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 for live parts forwards mm mywards mm downwards mm at the side mm at the side mm Terminals for main current circuit spring-loaded terminals for auxiliary and control circuit spring-loaded terminals of magnet coil Spring-type terminals of magnet coil spring-type terminals of main contacts solid x (1 10 mm²) solid or stranded x (1 10 mm²) finely stranded with core end processing 				
- forwards10 mm- upwards10 mm- downwards0 mm- at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• at contactor for auxiliary contactsSpring-type terminals• of magnet coilSpring-type terminals• for main contacts- solid- solid2x (1 10 mm²)- solid or stranded2x (1 10 mm²)- finely stranded with core end processing2x (1 6 mm²)		10 mm		
- upwards10 mm- downwards10 mm- at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• for auxiliary contactsSpring-type terminals• of magnet coilSpring-type terminalstype of connectable conductor cross-sectionsSpring-type terminals• for main contacts- solid- solid2x (1 10 mm²)- solid or stranded2x (1 10 mm²)- finely stranded with core end processing2x (1 6 mm²)	 for live parts 			
- downwards10 mm- at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• at contactor for auxiliary contactsSpring-type terminals• of magnet coilSpring-type terminalstype of connectable conductor cross-sectionsSpring-type terminals• for main contacts- solid- solid2x (1 10 mm²)- solid or stranded2x (1 10 mm²)- finely stranded with core end processing2x (1 6 mm²)	— forwards	10 mm		
at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• at contactor for auxiliary contactsSpring-type terminals• of magnet coilSpring-type terminalstype of connectable conductor cross-sectionsSpring-type terminals• for main contacts- solid- solid or stranded2x (1 10 mm²)- finely stranded with core end processing2x (1 6 mm²)	— upwards	10 mm		
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing	— downwards	10 mm		
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)	— at the side	6 mm		
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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 at contactor for auxiliary contacts of magnet coil Spring-type terminals Spring-type terminals				
• of magnet coil Spring-type terminals type of connectable conductor cross-sections • for main contacts 2x (1 10 mm²) — solid or stranded 2x (1 10 mm²) — finely stranded with core end processing 2x (1 6 mm²)	-			
type of connectable conductor cross-sections • for main contacts — solid 2x (1 10 mm²) — solid or stranded 2x (1 10 mm²) — finely stranded with core end processing 2x (1 6 mm²)	-			
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solid2x (1 10 mm²) solid or stranded2x (1 10 mm²) finely stranded with core end processing2x (1 6 mm²)				
— solid or stranded2x (1 10 mm²)— finely stranded with core end processing2x (1 6 mm²)				
— finely stranded with core end processing 2x (1 6 mm ²)				
— finely stranded without core end processing 2x (1 6 mm ²)				
	 finely stranded without core end processing 	2x (1 6 mm²)		

 at AWG cables 	s for main contacts	2x	(18 8)				
	ctor cross-section for		(100)				
contacts							
 solid 	• solid		10 mm²				
 solid or strande 	ed	1	10 mm²				
 stranded 	stranded		10 mm²				
 finely stranded 	with core end processir	ng 1	1 6 mm ²				
 finely stranded 	without core end proces	ssing 1.	6 mm²				
connectable conductor contacts	connectable conductor cross-section for auxiliary						
 solid or strande 	ed	0.5	0.5 2.5 mm²				
 finely stranded 	with core end processir	ng 0.5	0.5 1.5 mm²				
 finely stranded 	without core end proces	ssing 0.5	5 2.5 mm²				
type of connectable	conductor cross-sect	ions					
 for auxiliary co 	ntacts						
— solid		2x	(0.5 2.5 mm²)				
— solid or st	randed	2x	(0.5 2.5 mm ²)				
— finely stra	nded with core end proc	essing 2x	(0.5 1.5 mm ²)				
	nded without core end p	-	(0.5 2.5 mm ²)				
	for auxiliary contacts	-	(20 14)				
	ded connectable cond		· · ·				
 for main contact 	cts	18	8				
 for auxiliary co 			14				
Safety related data							
product function		_					
•	poperding to IEC 60047	4-1 Ye	0				
	according to IEC 60947-						
IEC 61508			20 у				
60529	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/ Prot							
product function bu	product function bus communication						
Certificates/ approva	ls						
General Product A	pproval				EMC		
SP	<u>Confirmation</u>		(U) II	EHC	RCM		
Functional Safety/Safety of Machinery	Declaration of Conf	ormity	Test Certificates		Marine / Shipping		
<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS		
Marine / Shipping							
BUREAU VERITAS		Lloyd's Register urs	PRS	RINA	RMRS		
other		Dangerous Good					

7/8/2022



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=3RT2326-2BF40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2326-2BF40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2326-2BF40

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2326-2BF40&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2326-2BF40/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2326-2BF40&objecttype=14&gridview=view1

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