SIEMENS

Product data sheet 3RT2326-1BF40



4NO CONTACTOR, AC1: 40A DC 110V 4-POLE, 4NO, SZ: S0, SCREW TERMINAL 1NO+1NC INTEGR.

General technical data:		
product brand name		SIRIUS
Size of the contactor		S0
Product extension		
auxiliary switch		Yes
function module for communication		No
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-55 + 80
during operating	°C	-25 +60
Shock resistance		
at rectangular impulse		
• at DC		10g / 5 ms, 7,5g / 10 ms
at sine pulse		
• at DC		15g / 5 ms, 10g / 10 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690

Maximum permissible voltage for protective separation / between coil and main contacts / in accordance with EN 60947-1	V	400
Mechanical operating cycles as operating time		
of the contactor / typical		10,000,000
of the contactor with added auxiliary switch block / typical		10,000,000
 of the contactor with added electronics-compatible auxiliary switch block / typical 		5,000,000

Main circuit:		
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		4
Connectable conductor cross-section / in main circuit		
• at AC-1		
• at 40 °C / minimum permissible	mm²	10
• at 60 °C / minimum permissible	mm²	10
Operating current		
• at AC-1 / up to 690 V		
• at 40 °C ambient temperature / rated value	Α	40
• at 60 °C ambient temperature / rated value	Α	35
• at AC-2 / at 400 V / rated value	Α	17
• at AC-3		
• at 400 V / rated value	Α	15.5
• at AC-4 / at 400 V / rated value	Α	15.5
Operating current		
• with 1 current path / at DC-1		
• at 24 V / rated value	Α	35
• at 110 V / rated value	Α	4.5
• at 220 V / rated value	Α	1
• at 440 V / rated value	Α	0.4
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	Α	35
• at 110 V / rated value	Α	35
• at 220 V / rated value	Α	1
• at 440 V / rated value	Α	1
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	Α	35
• at 110 V / rated value	Α	35
• at 220 V / rated value	Α	35
• at 440 V / rated value	Α	2.9
Operating current		
• with 1 current path / at DC-3 / at DC-5		

• at 24 V / rated value	Α	20
• at 110 V / rated value	Α	2.5
• at 220 V / rated value	Α	1
• at 440 V / rated value	Α	0.09
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	Α	35
• at 110 V / rated value	Α	15
• at 220 V / rated value	Α	3
• at 440 V / rated value	Α	0.27
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	Α	35
• at 110 V / rated value	Α	35
• at 220 V / rated value	Α	10
• at 440 V / rated value	Α	0.6
Operating performance		
• at AC-1 / at 230 V / rated value	kW	23
• at AC-1 / at 400 V / rated value	kW	23
• at AC-2		
• at 400 V / rated value	kW	9
• at AC-3		
• at 230 V / rated value	kW	4
• at 400 V / rated value	kW	7.5
• at AC-4		
• at 400 V / rated value	kW	7.5
Thermal short-time current / restricted to 10 s	Α	200
Active power loss / at AC-3 / at 400 V / with rated Operating current value / per conductor	W	1.6
Off-load operating frequency		
• at DC	1/h	1,500
Frequency of operation		
• with AC-1 / maximum	1/h	1,000
• with AC-2 / maximum	1/h	750
• with AC-3 / maximum	1/h	750
• with AC-4 / maximum	1/h	250

Control circuit/ Control:		
Voltage type / of control feed voltage		DC
Control supply voltage		
• for DC / rated value	V	110
Operating range factor control supply voltage rated value / of the magnet coil		

• for DC		0.8 1.1
Pull-in power / of the solenoid / for DC	W	5.9
Holding power / of the solenoid / for DC	W	5.9
Closing delay		
• at DC	ms	50 170
Opening delay		
• at DC	ms	15 17.5
Arcing time	ms	10 10

Auxiliary circuit:		
Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts / for auxiliary contacts / instantaneous switching		1
Number of NO contacts / for auxiliary contacts / instantaneous switching		1
Operating current		
• at AC-12 / maximum	Α	10
• at AC-15		
at 230 V / rated value	Α	10
at 400 V / rated value	Α	3
at 500 V / rated value	Α	2
at 690 V / rated value	Α	1
Operating current / at DC-12		
• at 24 V / rated value	Α	10
• at 48 V / rated value	А	6
• at 60 V / rated value	Α	6
at 110 V / rated value	Α	3
at 125 V / rated value	Α	2
at 220 V / rated value	А	1
at 440 V / rated value	Α	0.3
at 600 V / rated value	А	0.15
Operating current / at DC-13		
• at 24 V / rated value	Α	10
• at 48 V / rated value	Α	2
• at 60 V / rated value	А	2
at 110 V / rated value	А	1
at 125 V / rated value	А	0.9
• at 220 V / rated value	Α	0.3
• at 440 V / rated value	Α	0.14
• at 600 V / rated value	Α	0.1

UL/CSA ratings:		
yielded mechanical performance [hp]		
• for single-phase squirrel cage motors		
• at 110/120 V / rated value	hp	1
• at 230 V / rated value	hp	3
• for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	3
• at 220/230 V / rated value	hp	5
• at 460/480 V / rated value	hp	10
• at 575/600 V / rated value	hp	15
Full-load current (FLA) / for 3-phase motor		
• at 480 V / rated value	Α	14
• at 600 V / rated value	Α	17
Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600

Short-circuit:	
Design of the fuse link	
• for short-circuit protection of the auxiliary switch / required	fuse gL/gG: 10 A
• for short-circuit protection of the main circuit	
with type of assignment 1 / required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 63 A
at type of coordination 2 / required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 25A

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
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Mounting type / series installation		Yes
Width	mm	61
Height	mm	85
Depth	mm	107
Distance, to be maintained, to the ranks assembly / sidewards	mm	0

Connections/ terminals:	
Design of the electrical connection	
• for main current circuit	screw-type terminals
for auxiliary and control current circuit	screw-type terminals
 for main contacts / finely stranded / with conductor end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²

• for AWG conductors / for main contacts

 for auxiliary contacts / finely stranded / with conductor end processing

• for AWG conductors / for auxiliary contacts

2x (16 ... 12), 2x (14 ... 8)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14)

Safety related data:		
B10 value / with high demand rate		
according to SN 31920		1,000,000
T1 value / for proof test interval or service life		
according to IEC 61508	а	20
Proportion of dangerous failures		
• with low demand rate / according to SN 31920	%	40
with high demand rate / according to SN 31920	%	73
Failure rate [FIT] / with low demand rate		
according to SN 31920	FIT	100
Product function		
• mirror contact to IEC 60947-4-1		Yes
 positively driven operation to IEC 60947-5-1 		No

Certificates/ approvals:

General Product Approval

EMC

Functional Safety / Safety of Machinery











Type Examination

Declaration of Conformity

Test Certificates



Special Test Certificate Type Test
Certificates/Test
Report

Shipping Approval













Shipping Approval

other





Confirmation



Environmental Confirmations

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

 $\underline{\text{http://www.siemens.com/industrial-controls/catalogs}}$

Industry Mall (Online ordering system)

http://mall.industry.siemens.com/

Cax online generator

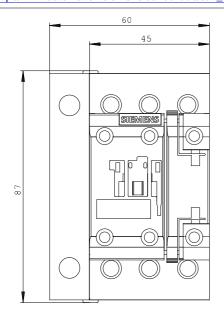
http://www.siemens.com/cax

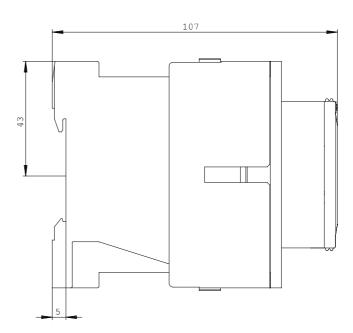
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

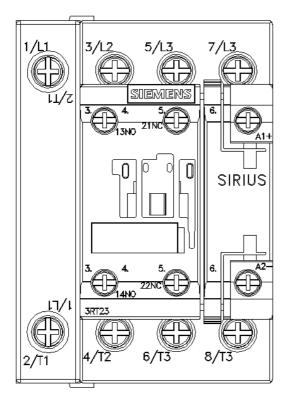
http://support.automation.siemens.com/WW/view/en/3RT2326-1BF40/all

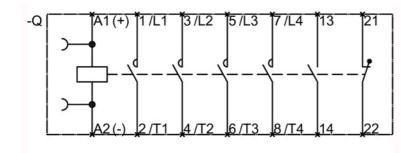
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2326-1BF40}$









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