SIEMENS

Product data sheet

3RF2320-2DA22



SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 20 A 40 DEGREES C 24-230 V / 110-230 V AC SHORT-CIRC. RESIST. WITH B-MCB

General technical data:		
Product brand name		SIRIUS
product designation		solid-state contactor
Product function		short-circuit resistant with B-automatic device
Number of poles / for main current circuit		1
Protection class IP		IP20
Ambient temperature		
during operating	°C	-25 60
during storage	°C	-55 80
Installation altitude / at a height over sea level / maximum	m	1,000
Resistance against vibration / according to IEC 60068-2-6		2g
Resistance against shock / according to IEC 60068-2-27		15g / 11 ms
Item designation		
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		К
according to DIN EN 61346-2		Q
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Number of change-over switches / for auxiliary contacts		0

Number of NO contacts / for main contacts		1
Number of NC contacts / for main contacts	_	0
Operating current	-	
	٨	20
• at AC-1 / at 400 V / rated value	A	20
• at AC-51 / rated value	A	20
Operating current / of line safety switch / for AC / rated value	A	20
Operating current / minimum	mA	500
Operating voltage		
at 50 Hz / at AC / rated value	V	24 230
at 60 Hz / at AC / rated value	V	24 230
Working area related to the operating voltage		
• at 50 Hz / for AC	V	20 253
• at 60 Hz / for AC	V	20 253
Operating frequency		
rated value	Hz	50 60
Relative symmetrical tolerance / of the operation frequency	%	10
Insulation voltage / rated value	V	600
Voltage slew rate / at the thyristor / for main contacts / maximum permissible	V/µs	1,000
Block voltage / at the thyristor / for main contacts / maximum permissible	V	800
Reverse current / of the thyristor	mA	10
Derating temperature	°C	40
Active power loss / total / typical	W	20
Resistance against the impulse current / rated value	А	1,150
I2t-level / maximum	A²·s	6,600
Control circuit:		
Control supply voltage frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Type of voltage / of the controlled supply voltage		AC
Control supply voltage / 1		
• at 50 Hz / for AC		
• initial rated value	V	110
• final rated value	V	230
• at 60 Hz / for AC		
• initial rated value	V	110
final rated value	V	230
Control supply voltage		
• at 50 Hz / for AC / final value for signal<0>-recognition	V	40
с с С		

• at 60 Hz / for AC / final value for signal<0>-recognition	V	40
Tolerance of the line frequency	Hz	5
Relative symmetrical tolerance / of the supply voltage frequency	%	10
Control current	_	
 at minimum control supply voltage / for AC 	mA	2
• for AC / rated value	mA	15
Fuse assignments		https://www.automation.siemens.com/cd- static/material/info/3RF21_eng.pdf

Installation/mounting/dimensions:

Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail
Type of fixing/fixation / series installation		Yes
Design of the thread / of the screw for fastening of the operating resource		M4
Tightening torque / of the screw for fastening of the operating resource	N∙m	1.5
Width	mm	22.5
Height	mm	100
Depth	mm	140.5

Connections:		
Design of the electrical connection / for main current circuit		spring-loaded terminals
Type of the connectable conductor cross-section		
for main contacts		
• solid		2x (0.5 2.5 mm2)
 finely stranded 		
 with conductor end processing 		2x (0.5 1.5 mm2)
 without conductor final cutting 		2x (0.5 2.5 mm2)
for AWG conductors		
for main contacts		2x (18 14)
 for auxiliary and control contacts 		1x (AWG 20 12)
 for auxiliary and control contacts 		
• solid		0.5 1.5 mm2
finely stranded		
 with conductor end processi ng 		0.5 2.5 mm2
 without conductor final cut ting 		0.5 2.5 mm2
Conductor cross section that can be connected		
for main contacts		
• solid	mm²	0.5 2.5

stranded wire		
with conductor end processing	mm²	0.5 0.5
without conductor final cutting	mm²	0.5 2.5
 for auxiliary and control contacts 		
• solid	mm²	0.5 1.5
• stranded wire		
with conductor end processing / minimum	mm²	0.5 2.5
without conductor final cutting	mm²	0.5 2.5
AWG number / as coded connectable conductor cross-section / for main contacts		14 18
Design of the electrical connection / for auxiliary and control current circuit		spring-loaded terminals
AWG number / as coded connectable conductor cross-section		
for auxiliary and control contacts		20 12
Skinning length / of the cable / for main contacts	mm	7
Skinning length / of the cable / for auxiliary and control contacts	mm	7

Certificates/ap	provals:		
General Produc	ct Approval	Test Certificates	other
	ROSTEST	Manufacturer	Manufacturer





Further information:

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

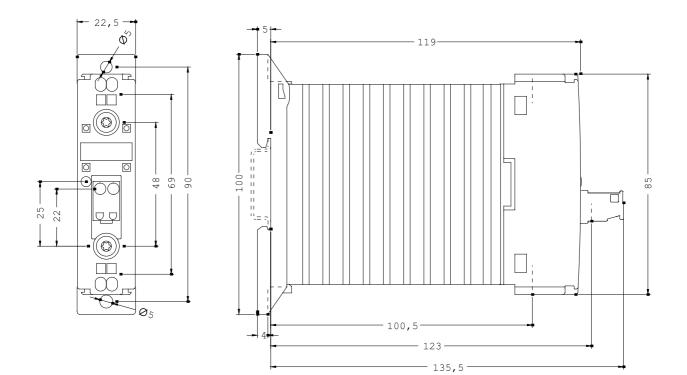
http://www.siemens.com/industrial-controls/mall

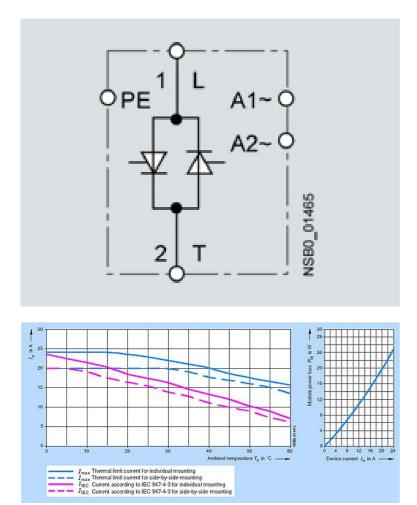
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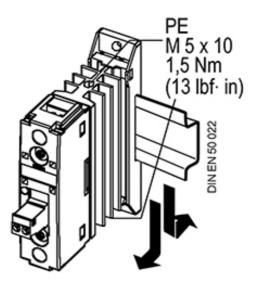
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF2320-2DA22/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2320-2DA22







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