SIEMENS

Product data sheet

3RF2310-2AA02



SEMI-COND. CONTACTOR 3RF2, 1-PH AC 51 10 A 40 DEGREES C 24-230 V / 24 V DC SPRING-LOADED TERMINAL

General technical data:		
Product brand name		SIRIUS
product designation	-	solid-state contactor
Product function		zero-point switching
Number of poles / for main current circuit		1
Protection class IP		IP20
Product designation / $_3$ / of the accessories that can be ordered		converter
Manufacturer article number / _3 / of the accessories that can be ordered		<u>3RF2900-0EA18</u>
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 change-over switches / for auxiliary contacts		0
Main circuit:		
Number of NO contacts / for main contacts		1
Number of NC contacts / for main contacts	_	0
Operating current	_	
• at AC-1 / at 400 V / rated value	А	10.5
• at AC-51 / rated value	А	10.5
Operating current / minimum	mA	100
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	500
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	11
Resistance against the impulse current / rated value	А	200
I2t-level / maximum	A²⋅s	200
Control circuit:		
Type of voltage / of the controlled supply voltage		DC
Control supply voltage / 1		
• for DC		
initial rated value	V	15
final rated value	V	24
Control supply voltage		
 for DC / final value for signal<0>-recognition 	V	5
Control current		
 at minimum control supply voltage / for DC 	mA	2
• for DC / rated value	mA	15

Fuse assignments

https://www.automation.siemens.com/cdstatic/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	94

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 1.5
 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		10 14
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/approvals:				
General Product Ap	proval		Test Certificates	other
(SA) CSA	ROSTEST		Manufacturer	<u>Manufacturer</u>

Further information:

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

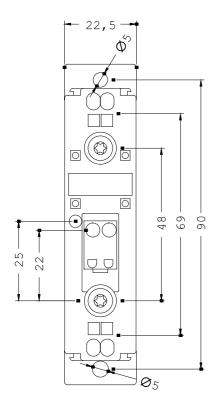
Industry Mall (Online ordering system) http://www.siemens.com/industrial-controls/mall

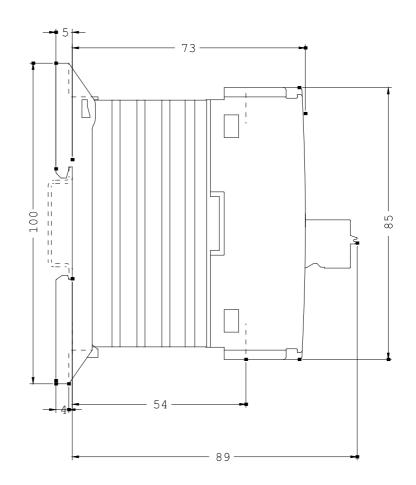
CAx-Online-Generator

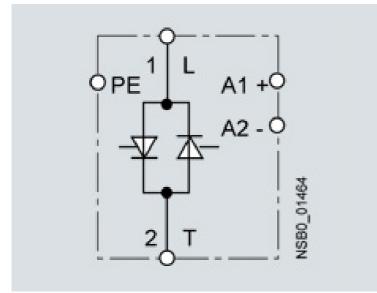
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF2310-2AA02/all

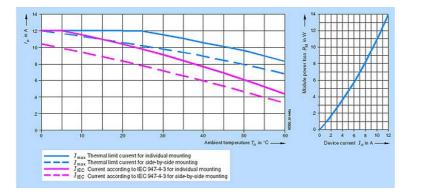
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2310-2AA02

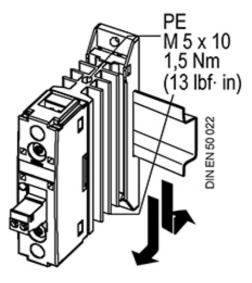






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last change:

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