SIEMENS

Product data sheet

3RF2320-1AA06



SEMI-COND. CONTACTOR 3RF2,1-PH. AC51 20 A 40 DEGREES C 48-600 V / 24 V DC SCREW 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 / _1 / of the accessories that can be ordered	terminal cover
Manufacturer article number / _1 / of the accessories that can be ordered	3RF2900-3PA88
Product designation / _3 / of the accessories that can be ordered	converter
Manufacturer article number / _3 / of the accessories that can be ordered	3RF2900-0EA18
Product designation / _4 / of the accessories that can be ordered	load monitoring
Manufacturer article number / _4 / of the accessories that can be ordered	3RF2920-0GA16
Product designation / _5 / of the accessories that can be ordered	load monitoring, basis
Manufacturer article number / _5 / of the accessories that can be ordered	<u>3RF2920-0FA08</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
Shock resistance / according to IEC 60068-2-27	_	15g / 11 ms
Reference code	_	
 according to DIN 40719 extended according to 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 changeover contacts / 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	A	20
at AC-51 / rated value	A	20
Operating current / minimum	mA	500
Operating voltage		
• at 50 Hz / at AC / rated value	V	48 600
• at 60 Hz / at AC / rated value	V	48 600
Working range relative to the operating voltage		
• at 50 Hz / with AC	V	40 660
• at 60 Hz / with AC	V	40 660
Operating frequency		
rated value	Hz	50 60
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	1,600
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	600
	-	

Short-circuit protection, design of the fuse link

https://www.automation.siemens.com/cdstatic/material/info/3RF23_eng.pdf

Control circuit/ Control:

I2t-level / maximum

A²⋅s

1,800

Voltage type / of control feed 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	

Installation/ mounting/ dimensions:		
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Mounting type / 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/ terminals:		
Design of the electrical connection / for main current circuit		screw-type terminals
Design of the thread / of the connection screw / for main contacts		M4
Tightening torque / for main contacts		
with screw-type terminals	N∙m	2 2.5
Tightening torque (Ibf·in) / for main contacts		
with screw-type terminals	lbf∙in	18 22
Type of the connectable conductor cross-section		
for main contacts		
• solid		2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
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		2x (14 10)
 for auxiliary and control contacts 		1x (AWG 20 12)
 for auxiliary and control contacts 		
• solid		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
finely stranded		

a with conductor and processing		$1 \times (0 = 2 = 2 = 2 \times (0 = 1 = 2 \times (0 = 1 = 2 \times (0 = 2 \times$
with conductor end processing		1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)
without conductor final cutting		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
Conductor cross section that can be connected		
• for main contacts		45 0
single- or multi-stranded	mm²	1.5 6
• stranded wire		
with conductor end processing	mm²	1 10
 for auxiliary and control contacts 		
• solid	mm²	0.5 2.5
stranded wire		
with conductor end processing /	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	n /	10 14
Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals
Design of the thread / of the connection screw / of the auxilia and control pins	ry	M3
AWG number / as coded connectable conductor cross-sectio	on	
 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 conta	acts mm	7
Tightening torque / for auxiliary and control contacts		
• with screw-type terminals	N∙m	0.5 0.6
Tightening torque (lbf-in) / for auxiliary and control contacts		
with screw-type terminals	lbf∙in	4.5 5.3
Certificates/ approvals:		
General Product Approval	EMC	Declaration of Conformity
	C-TICK	EG-Konf.
Test Certificates other		
Special Test Type Test Environmental Certificate Certificates/Test Confirmations		

Further information

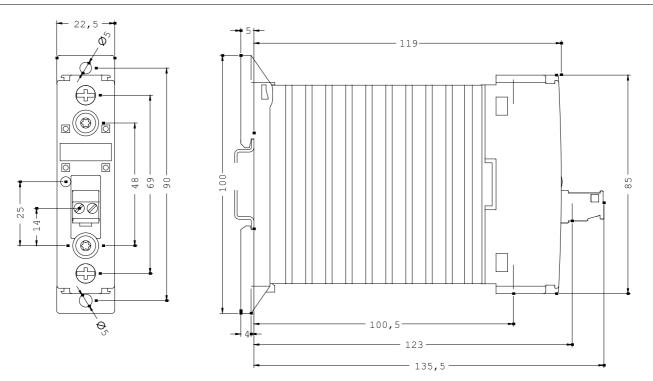
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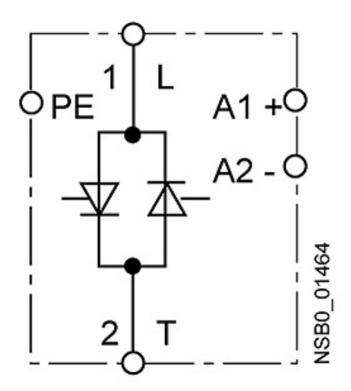
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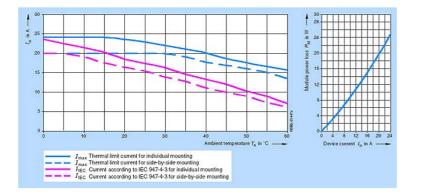
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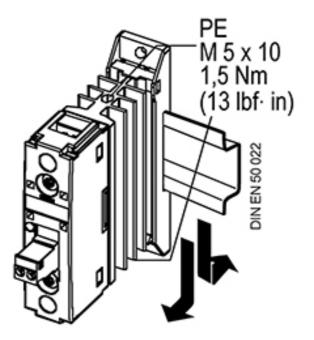
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF2320-1AA06/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2320-1AA06









last change:

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