SIEMENS

Product data sheet

3RF2320-1BA26



SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 20A / AC15 12A 40 DEG. C 48-600 V / 110-230 V AC INSTANTANEOUS SWITCHING

General technical data:			
Product brand name		SIRIUS	
product designation		solid-state contactor	
Product function		instantaneous 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 / _2 / of the accessories that can be ordered		power regulator	
Manufacturer article number / _2 / of the accessories that can be ordered		3RF2920-0HA36	
Product designation / _4 / of the accessories that can be ordered		load monitoring	
Manufacturer article number / _4 / of the accessories that can be ordered		<u>3RF2920-0GA36</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 shock / according to IEC 60068-2-27 Item designation • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 • according to DIN EN 61346-2 Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts	15g / 11 ms K		
according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 according to DIN EN 61346-2 Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts	к		
to IEC 750 • according to DIN EN 61346-2 Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts	к		
Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts			
Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts	Q		
Number of change-over switches / for auxiliary contacts	0		
	0		
	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	48 600		
• at 60 Hz / at AC / rated value	48 600		
Working area related to the operating voltage			
• at 50 Hz / for AC V	40 660		
• at 60 Hz / for AC V	40 660		
Operating frequency			
rated value Hz	50 60		
Relative symmetrical tolerance / of the operation frequency %	10		
Insulation voltage / rated value	600		
Voltage slew rate / at the thyristor / for main contacts / V/µs maximum permissible	1,000		
Block voltage / at the thyristor / for main contacts / maximum V permissible	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 A	600		
I2t-level / maximum A ² ·s	1,800		
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
• 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 mounting		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		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		
 with conductor end processi ng 		1x (0.5 2.5 mm2), 2x (0.5 1.0 mm2)
• without conductor final cut ting	_	1x (0.5 2.5 mm2), 2x (0.5 1.0 mm2)
Conductor cross section that can be connected		
for main contacts		
• solid	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 / 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		screw-type terminals
Design of the thread / of the connection screw / of the auxiliary and control pins	-	M3
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
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:

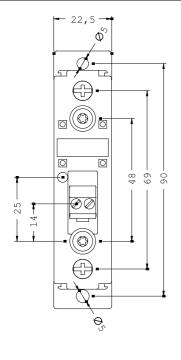
General Produc	t Approval		Test Certificates	other
(SA)	<u>ROSTEST</u>		Manufacturer	<u>Manufacturer</u>
Further information:				
Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs				
	nline ordering system)	/mall		

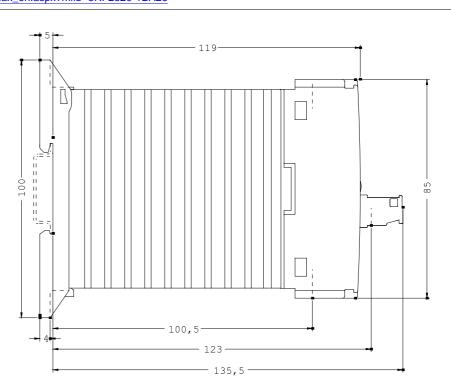
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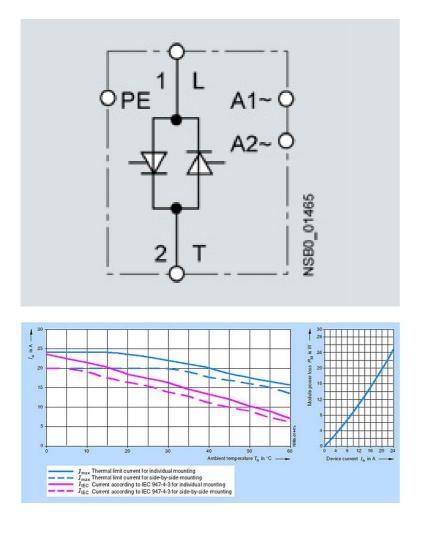
http://www.siemens.com/cax

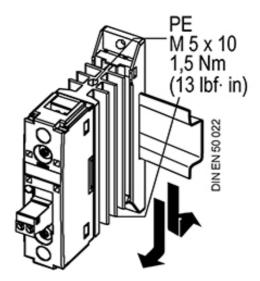
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF2320-1BA26/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF2320-1BA26









last change:

Aug 22, 2011