## SIEMENS

## **Product data sheet**

## 3RF2320-1BA04



SEMI-COND. CONTACTOR 3RF2,1-PH. AC51 20A / AC15 12A 40 DEGR. C 48-460V / 24V DC INST. 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	<u>3RF2920-0HA16</u>		
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>		
Product designation / _4 / of the accessories that can be ordered	load monitoring		
Manufacturer article number / _4 / of the accessories that can be ordered	<u>3RF2920-0GA16</u>		

Manufacturer article number / .5 / of the accessories that can be orderedSRF2220-0FA03Ambient temperature • during sporagioC25 +80• during storage°C.55 +80• temperature / acc. to IEC 60068-24S29Shock resistance / acc. to IEC 60068-27G15g / 11 msReference codeV15g / 11 ms• acc. to DIN 47/19 extended according to IEC 204-2 / acc. to IEC00Number of NC contacts / for auxiliary contacts00Number of NC contacts / for auxiliary contacts00Operating current10• at AC-1 / at 400 V / Rated valueA20• at AC-1 / at 400 V / Rated valueA20• at AC-1 / at 400 V / Rated valueA20• at AC-1 / at 400 V / Rated valueA20• at AC-1 / at 400 V / Rated valueV48460• with AC / at 50 Hz / Rated valueV48460• with AC / at 50 Hz / Rated valueV40505• with AC / at 50 Hz / Rated valueV40505• with AC / at 50 Hz / Rated valueV40505• with AC / at 50 Hz / Rated valueV40505 <trr>• with AC / at 50</trr>	Product designation / _5 / of the accessories that can be ordered		load monitoring, basis
- during operationPC25+80iduring storagePC55+80Installation altitude / at height above sea level / maximumPM1000Vibrator resistance / acc. to IEC 60068-2-6Z9Sectoral Sectoral Sector PC 60068-2-77Sheck resistance / acc. to IEC 60068-2-77Sectoral Sectoral Sector Sectoral Sector Sectoral Sectoral Sector			3RF2920-0FA08
during storagePC55480Installation altitude / at height above sea level / maximumm1,000Vibration resistance / acc. to IEC 60068-2:62929Shock resistance / acc. to IEC 60068-2:7Image of the set of	Ambient temperature		
Installation altitude / at height above seal evel / maximumm1.000Vibration resistance / acc. to IEC 60068-2-629Shock resistance / acc. to IEC 60068-2-47ISp / 11 msReference codeISp / 11 ms• acc. to DIN 40719 extended according to IEC 204-2 / acc. to IECG* acc. to DIN 40719 extended according to IEC 204-2 / acc. to IECGNumber of NC contacts / for auxiliary contactsINumber of NC contacts / for auxiliary contactsI <td>during operation</td> <td>°C</td> <td>-25 +60</td>	during operation	°C	-25 +60
Vibration resistance / acc. to IEC 60068-2-472gShock resistance / acc. to IEC 60068-2-2715g / 11 msReference code1• acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC0700- acc. to DIN EN 61346-20Number of NC contacts / for auxiliary contacts0Number of NC contacts / for auxiliary contacts0Number of CO contacts / for auxiliary contacts0Number of NC contacts / for auxiliary contacts1Number of NC contacts / for auxiliary contacts / m	during storage	°C	-55 +80
Shock resistance / acc. to IEC 60068-2-2715g / 11 msReference code15g / 11 msreac. to DIN 40719 extended according to IEC 204-2 / acc. to EC 700C· acc. to DIN EN 61346-2QNumber of NC contacts / for auxiliary contacts0Number of NC contacts / for auxiliary contacts0Number of NC contacts / for auxiliary contacts0Number of NC contacts / for main contacts1Number of NC contacts / for main contacts1Number of NC contacts / for main contacts0Number of NC contacts / for main contacts0Number of NC contacts / for main contacts1Number of NC contacts / for main contacts0Operating currentA• at AC-1 / at 400 V / Rated valueA• at AC-51 / Rated valueA• with AC / at 60 Hz / Rated valueV• with AC / at 60 Hz / Rated valueV• with AC / at 60 Hz / Rated valueV• with AC / at 60 Hz / Rated valueV• with AC / at 60 Hz / Rated valueV• with AC / at 60 Hz / Rated valueV• with AC / at 60 Hz / Rated valueV• with AC / at 60 Hz / Rated valueV• with AC / at 60 Hz / Rated valueV• Rated valueV• Rated valueV• With AC / at 60 Hz / Rated valueV• With AC / at 60 Hz / Rated valueV• With AC / at 60 Hz / Rated valueV• Rated valueV• Rated valueV• Rated valueV• Ra	Installation altitude / at height above sea level / maximum	m	1,000
Reference code         Control           • acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750         K           • acc. to DIN EN 61346-2         Q           Number of NC contacts / for auxiliary contacts         0           Number of NC contacts / for auxiliary contacts         0           Number of NC contacts / for auxiliary contacts         0           Mumber of NC contacts / for main contacts         0           Mumber of NC contacts / for main contacts         0           Number of NC contacts / for main contacts         0           Number of NC contacts / for main contacts         0           Operating current         1           • at AC-1 / at 400 V / Rated value         A         20           • at AC-1 / at 60 V / Rated value         A         20           • at AC-1 / at 60 V / Rated value         V         48 460           • with AC / at 50 Hz / Rated value         V         48 460           • with AC / at 60 Hz / Rated value         V         48 460           • with AC / at 60 Hz / Rated value         V         40 506           • with AC / at 60 Hz / Rated value         V         40 506           • with AC / at 60 Hz / Rated value         V         600           • with AC / at 60 Hz / Rated value         V <td>Vibration resistance / acc. to IEC 60068-2-6</td> <td></td> <td>2g</td>	Vibration resistance / acc. to IEC 60068-2-6		2g
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Main circuit:         Number of NO contacts / for main contacts       1         Number of NC contacts / for main contacts       0         Operating current       0         • at AC-1 / at 400 V / Rated value       A       20         • at AC-1 / at 400 V / Rated value       A       20         • at AC-1 / at 400 V / Rated value       A       20         • at AC-1 / Rated value       A       20         • at AC-1 / Rated value       A       20         Operating current / minimum       mA       500         Operating voltage       V       48 460         • with AC / at 50 Hz / Rated value       V       48 460         • with AC / at 50 Hz       V       48 460         • with AC / at 50 Hz       V       40 506         • with AC / at 60 Hz       V       40 506         • with AC / at 60 Hz       V       40 506         Operating frequency       V       600         • with AC / at 60 Hz       V       600         Insulation voltage / Rated value       V       1,000         Rate of voltage rise / at the thyristor / for main contacts / maximum permissible       1,200         Blocking voltage / at the thyristor / for main contacts / maximum       1	Number of NO contacts / for auxiliary contacts		0
Number of NO contacts / for main contacts1Number of NC contacts / for main contacts0Operating current0• at AC-1 / at 400 V/ Rated valueA20• at AC-1 / at 400 V/ Rated valueA20• at AC-51 / Rated valueAA20• at AC-51 / Rated valueMA500• otta AC-51 / Rated valueV48 460• with AC / at 50 Hz / Rated valueV48 460• with AC / at 60 Hz / Rated valueV48 460• with AC / at 60 Hz / Rated valueV40 506• with AC / at 60 HzV40 506• with AC / at 60 HzV40 506• with AC / at 60 HzV600• with AC / at 60 HzV600• Rated valueV600Insulation voltage / Rated valueV800Rate of voltage rise / at the thyristor / for main contacts / maximum permissibleV1,200Blocking voltage / at the thyristor / for main contacts / maximum permissibleMA10Blocking voltage / at the thyristor / for main contacts / maximum permissibleMA10Reverse current / of the thyristorMA1010Charting temperatureMA1010Active power loss / total / typicalW2010	Number of CO contacts / for auxiliary contacts		0
Number of NC contacts / for main contactsImage: Contacts / for main contactsOperating currentImage: Contacts / for main contactsImage: Contacts / for main contacts• at AC-1 / at 400 V / Rated valueImage: Contacts / for main contactsImage: Contacts / for main contacts• at AC-51 / Rated valueImage: Contacts / for main contactsImage: Contacts / for main contacts• operating current / minimumImage: Contacts / for main contactsImage: Contacts / for main contacts• with AC / at 50 Hz / Rated valueImage: Contacts / for main contactsImage: Contacts / for main contacts• with AC / at 60 HzImage: Contacts / for main con	Main circuit:		
Operating currentImage: constraint of the hyristor / for main contacts / maximum permissibleImage: constraint of the hyristor / for main contacts / maximum permassibleOperating current / minimumA20Operating current / minimumMA500Operating current / minimumMA500Operating voltageV48 460• with AC / at 50 Hz / Rated valueV48 460• with AC / at 60 Hz / Rated valueV48 460Operating range relative to the operating voltageV40 506• with AC / at 50 HzV40 506• with AC / at 60 HzV40 506• with AC / at 60 HzV50 60• nated valueV600• Rated valueV600• Rated valueV1,000Blocking voltage rise / at the thyristor / for main contacts / maximum1,000Perating temperatureMA10• Newerse current / of the thyristor / for main contacts / maximumMA• Operating temperatureMA10	Number of NO contacts / for main contacts		1
• at AC-1/at 400 V/ Rated valueA20• at AC-51 / Rated valueA20Operating current / minimumMA500Operating voltageV48460• with AC / at 50 Hz / Rated valueV48460• with AC / at 60 Hz / Rated valueV48460• with AC / at 60 Hz / Rated valueV40506• with AC / at 50 Hz / Rated valueV40506• with AC / at 50 HzV40506• with AC / at 60 HzV40506• with AC / at 60 HzV5060• Rated valueV600• Rated valueV5060• Rated valueV1.000Blocking voltage / at the thyristor / for main contacts / maximum permissible1.20Blocking voltage / at the thyristor / for main contacts / maximum permissibleMA10Derating temperatureMA10Active power loss / total / typicalW20	Number of NC contacts / for main contacts		0
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Operating range relative to the operating voltageImage: constraint of the operating voltage• with AC / at 50 HzV40 506• with AC / at 60 HzV40 506Operating frequencyImage: constraint of the operating voltage / Rated valueHz• Rated valueHz50 60Insulation voltage / Rated valueV600Rate of voltage rise / at the thyristor / for main contacts / maximum permissible1,000Blocking voltage / at the thyristor / for main contacts / maximum permissibleV1,200Reverse current / of the thyristormA10Derating temperature4040Active power loss / total / typicalW20	• with AC / at 50 Hz / Rated value	V	48 460
• with AC / at 50 HzV40 506• with AC / at 60 HzV40 506Operating frequencyV40 506• Rated valueHz50 60Insulation voltage / Rated valueV600Rate of voltage rise / at the thyristor / for main contacts / maximum permissibleV/µs1,000Blocking voltage / at the thyristor / for main contacts / maximum permissibleV1,200Reverse current / of the thyristorMA10Derating temperature°C40Active power loss / total / typicalW20	• with AC / at 60 Hz / Rated value	V	48 460
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Operating frequencyImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleImage: Constraint of the thyristor / for maximum permissibleImage: Constraint of the thyristor / for maximum permissible <td>• with AC / at 50 Hz</td> <td>V</td> <td>40 506</td>	• with AC / at 50 Hz	V	40 506
• Rated valueHz50 60Insulation voltage / Rated valueV600Rate of voltage rise / at the thyristor / for main contacts / maximum permissibleV/μs1,000Blocking voltage / at the thyristor / for main contacts / maximum permissibleV1,200Reverse current / of the thyristormA10Derating temperature°C40Active power loss / total / typicalW20	• with AC / at 60 Hz	V	40 506
Insulation voltage / Rated valueV600Rate of voltage rise / at the thyristor / for main contacts / maximum permissibleV/µs1,000Blocking voltage / at the thyristor / for main contacts / maximum permissibleV1,200Reverse current / of the thyristormA10Derating temperature°C40Active power loss / total / typicalW20	Operating frequency		
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maximum permissibleImage: Constraint of the thyristor / for main contacts / maximum permissibleV1,200Reverse current / of the thyristormA10Derating temperature°C40Active power loss / total / typicalW20	Insulation voltage / Rated value	V	600
permissibleImage: Comparison of the thyristorReverse current / of the thyristormADerating temperature°CActive power loss / total / typicalW20		V/µs	1,000
Derating temperature     °C     40       Active power loss / total / typical     W     20		V	1,200
Active power loss / total / typical     W     20	Reverse current / of the thyristor	mA	10
	Derating temperature	°C	40
Surge current resistance / Rated value A 600	Active power loss / total / typical	W	20
	Surge current resistance / Rated value	А	600

I2t value / maximum	A <sup>2</sup> ·s	1,800
Short-circuit protection, design of the fuse link		https://www.automation.siemens.com/cd-
		static/material/info/3RF23_eng.pdf
Control circuit/ Control:		
Type of voltage / of the control supply voltage		DC
Control supply voltage / 1		
• for DC		
Initial rated value	V	15
Final rated value	V	24
Control supply voltage		
<ul> <li>for DC / Full-scale value for signal&lt;0&gt; recognition</li> </ul>	V	5
Control current		
• at minimum control supply voltage / for DC	mA	2
• for DC / Rated value	mA	15
Installation/ mounting/ dimensions:		
	_	corow and once on mounting onto 25 mm standard
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Mounting type / Side-by-side mounting		Yes
Design of the thread / of the screw for securing the equipment		M4
Tightening torque / of the screw for securing the equipment	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 [lbf-in] / for main contacts		
with screw-type terminals	lbf∙in	18 22
Type of connectable conductor cross-section		
for main contacts		
• solid		2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
finely stranded		
with core end processing		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
for AWG conductors		
for main contacts		2x (14 10)
<ul> <li>for auxiliary and control contacts</li> </ul>		1x (AWG 20 12)

General Product Approval	EMC	Declaration of Conformity
Certificates/ approvals:		
with screw-type terminals	lbf∙in	4.5 5.3
Tightening torque [lbf-in] / for auxiliary and control contacts		
with screw-type terminals	N∙m	0.5 0.6
Tightening torque / for auxiliary and control contacts		
Wire stripping length / of the cable / for auxiliary and control contacts	mm	7
Wire stripping length / of the cable / for main contacts	mm	7
<ul> <li>for auxiliary and control contacts</li> </ul>		20 12
AWG number / as coded connectable conductor cross section		
Design of the thread / of the connection screw / of the auxiliary and control contacts		M3
Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals
AWG number / as coded connectable conductor cross section / for main contacts		10 14
without core end processing	mm²	0.5 2.5
with core end processing	mm²	0.5 2.5
finely stranded		
• solid	mm²	0.5 2.5
<ul> <li>for auxiliary and control contacts</li> </ul>		
with core end processing	mm²	1 10
• finely stranded		
single or multi-stranded	mm²	1.5 6
for main contacts		
Connectable conductor cross-section		
without core end processing		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
with core end processing		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
finely stranded		
• solid		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>for auxiliary and control contacts</li> </ul>		











EHC UL C-TICK **Test Certificates** other Special Test Type Test Environmental Certificate Certificates/Test Confirmations Report

Further information:

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

Industry Mall (Online ordering system)

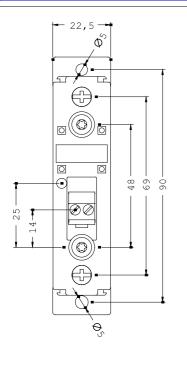
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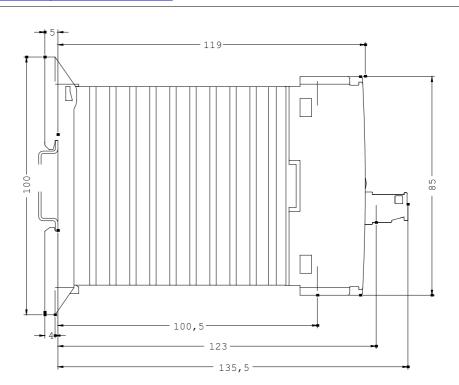
Cax online generator

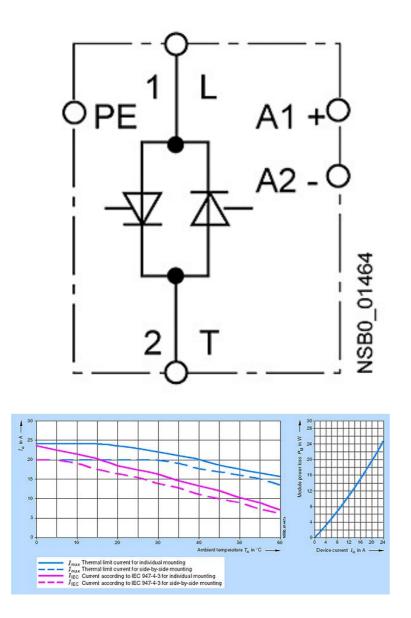
http://www.siemens.com/cax

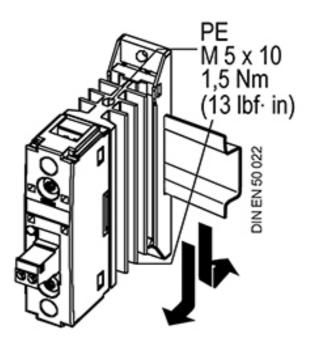
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RF2320-1BA04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RF2320-1BA04









last change:

Nov 3, 2014