## SIEMENS

## Data sheet

## 3RF2320-1BA04



Solid-state contactor 1-phase 3RF2 AC 15 / 12 A / 40  $^\circ \rm C$  48-460 V / 24 V DC Instantaneous switching

product brand nameSIRUSproduct designationsolid-state contactordesign of the productsingle-phaseproduct type designation3RF220.03PA8E-1 of the accessories that can be ordered3RF220.04A16-2 of the accessories that can be ordered3RF220.04A16-3 of the accessories that can be ordered3RF220.04A16-3 of the accessories that can be ordered3RF220.04A16-4 of the accessories that can be ordered3RF220.04A16-5 of the accessories that can be ordered3RF220.04A16-5 of the accessories that can be orderedorower-1 of the accessories that can be orderedorower-2 of the accessories that can be orderedorower-2 of the accessories that can be orderedload monitoring-3 of the accessories that can be orderedload monitoring-3 of the accessories that can be orderedload monitoring-5 of the accessories that can be orderedload monitoring-5 of the accessories that can be orderedload monitoring-6 of the accessories that can be orderedload monitoring-1 of the accessories that can be orderedload monitoring-1 of the accessories that can be orderedload monitoring-1 of the accessories that can be orderedload monitoring-2 of the accessories that can be orderedload monitoring-3 of th		
design of the product         single-phase           product type designation         3RF230           manufacturer's article number	product brand name	SIRIUS
product type designation         3RF23           manufacturer's article number         state and the ordered         3RF2900-3PA88	product designation	solid-state contactor
manufacturer's article number         strice number           • 1 of the accessories that can be ordered         3RF2900-3PA88           • 2 of the accessories that can be ordered         3RF2920-0PA16           • 4 of the accessories that can be ordered         3RF2920-0CA16           • 5 of the accessories that can be ordered         3RF2920-0CA16           • 5 of the accessories that can be ordered         3RF2920-0CA16           • 1 of the accessories that can be ordered         presco-0FA08           • 2 of the accessories that can be ordered         power regulator           • 2 of the accessories that can be ordered         power regulator           • 3 of the accessories that can be ordered         load monitoring           • 5 of the accessories that can be ordered         load monitoring           • 5 of the accessories that can be ordered         load monitoring           • 5 of the accessories that can be ordered         load monitoring           • 5 of the accessories that can be ordered         load monitoring           • 5 of the accessories that can be ordered         load monitoring           • 5 of the accessories that can be ordered         load monitoring           • 5 of the accessories that can be ordered         load monitoring           • 5 of the accessories that can be ordered         load monitoring           • a tAC in hot operating state or p	design of the product	single-phase
• _ 1 of the accessories that can be ordered3RE2300-3PA88• _ 2 of the accessories that can be ordered3RE2320-OFA16• _ 3 of the accessories that can be ordered3RE2320-OFA16• _ 5 of the accessories that can be ordered3RE2320-OFA18• _ 1 of the accessories that can be ordered3RE2320-OFA08product designation	product type designation	3RF23
• 2 of the accessories that can be ordered     3RF2920-0FA18       • 3 of the accessories that can be ordered     3RF2920-0FA18       • 4 of the accessories that can be ordered     3RF2920-0FA18       • 5 of the accessories that can be ordered     3RF2920-0FA18       • 1 of the accessories that can be ordered     3RF2920-0FA18       • 1 of the accessories that can be ordered     3RF2920-0FA08       • 2 of the accessories that can be ordered     power regulator       • 3 of the accessories that can be ordered     power regulator       • 3 of the accessories that can be ordered     load monitoring       • 5 of the accessories that can be ordered     load monitoring       • 5 of the accessories that can be ordered     load monitoring       • 5 of the accessories that can be ordered     load monitoring       • 5 of the accessories that can be ordered     load monitoring       • 5 of the accessories that can be ordered     load monitoring       • a f C in hot operating state     20 W       • at AC in hot operating state     20 W       • at AC in hot operating state     0.4 W       Insulation voltage rated value     6 KV       • surge voltage resistance of main circuit rated value     6 KV       • surge voltage resistance according to IEC 60068-2.4     2g       reference code according to IEC 60068-2.4     2g       vibration resistance according to IEC 60068-2.4	manufacturer's article number	
•_3 of the accessories that can be ordered3RF2920-0EA18•_4 of the accessories that can be ordered3RF2920-0EA16•_5 of the accessories that can be ordered3RF2920-0FA08•_2 of the accessories that can be orderedterminal cover•_2 of the accessories that can be orderedpower regulator•_3 of the accessories that can be orderedonverter•_3 of the accessories that can be orderedload monitoring•_3 of the accessories that can be orderedload monitoring•_5 of the accessories that can be orderedload monitoring•_6 of the accessories that can be orderedload monitoring• at AC in hot operating state20 W• at AC in hot operating state per pole00	<ul> <li>_1 of the accessories that can be ordered</li> </ul>	<u>3RF2900-3PA88</u>
<ul> <li>4 of the accessories that can be ordered</li> <li>5 of the accessories that can be ordered</li> <li>9RF2920-0GA16</li> <li>9RF2920-0FA08</li> <li>product designation</li> <li>- 1 of the accessories that can be ordered</li> <li>2 of the accessories that can be ordered</li> <li>2 of the accessories that can be ordered</li> <li>- 3 of the accessories that can be ordered</li> <li>- 3 of the accessories that can be ordered</li> <li>- 4 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of the accessories that can be ordered</li> <li>- 5 of voltage rate value</li> <li>- 5 of volt</li></ul>	<ul> <li>_2 of the accessories that can be ordered</li> </ul>	<u>3RF2920-0HA16</u>
• _ 5 of the accessories that can be ordered       3RF2920-0FA03         product designation       +         • _ 1 of the accessories that can be ordered       power regulator         • _ 2 of the accessories that can be ordered       load monitoring         • _ 3 of the accessories that can be ordered       load monitoring         • _ 5 of the accessories that can be ordered       load monitoring, basis         General technical data       -         product function       instantaneous switching         power loss [W] for rated value of the current       -         • at AC in hot operating state per pole       20 W         • at AC in hot operating state per pole       20 W         • without load current share typical       0.4 W         insulation voltage rated value       600 V         degree of pollution       3         syne of voltage of the control supply voltage       DC         surge voltage resistance according to IEC 60068-2-27       15g / 11 ms         vibration resistance according to IEC 60068-2-26       2g         reference code according to IEC 60068-2-27       15g / 11 ms         vibration resistance according to IEC 60068-2-27       0         reference code according to IEC 60068-2-26       2g         reference code according to IEC 60068-2-26       2g	<ul> <li>_3 of the accessories that can be ordered</li> </ul>	<u>3RF2900-0EA18</u>
product designation         terminal cover           • _ 1 of the accessories that can be ordered         power regulator           • _ 3 of the accessories that can be ordered         load monitoring           • _ 3 of the accessories that can be ordered         load monitoring           • _ 4 of the accessories that can be ordered         load monitoring           • _ 5 of the accessories that can be ordered         load monitoring           • _ 5 of the accessories that can be ordered         load monitoring           • _ 5 of the accessories that can be ordered         load monitoring           • _ 5 of the accessories that can be ordered         load monitoring           • _ 5 of the accessories that can be ordered         load monitoring           • _ 6 of the accessories that can be ordered         load monitoring           • _ 6 of the accessories that can be ordered         load monitoring           • _ 6 of the accessories that can be ordered         load monitoring           • _ 6 of the accessories that can be ordered         load monitoring           • a cot be ordered         load monitoring           • a th C in hot operating state         20 W           • at AC in hot operating state per pole         20 W           • at AC in hot operating state per pole         20 W           • at AC in hot operating state per pole         DC	<ul> <li>_4 of the accessories that can be ordered</li> </ul>	<u>3RF2920-0GA16</u>
• _ 1 of the accessories that can be orderedterminal cover• _ 2 of the accessories that can be orderedpower regulator• _ 3 of the accessories that can be orderedload monitoring• _ 4 of the accessories that can be orderedload monitoring. basisConverterOut of the accessories that can be ordered• _ 5 of the accessories that can be orderedload monitoring. basisConverterOut of the accessories that can be orderedInstantaneous switchingproduct functionInstantaneous switchingpower loss [W] for rated value of the current• at AC in hot operating state0 W• at AC in hot operating state per pole20 W• without load current share typical0.4 WInsulation voltage rated value600 Vdegree of pollution3type of voltage of the control supply voltageDCsurge voltage resistance according to IEC 60068-2-672greference code according to IEC 60068-2-662greference code according to IEC 60068-2-662greference code according to IEC 60068-2-672greference code according to IEC 60068-2-662greference code according to IEC 60068-2-662greference code according to IEC 60068-2-672greference code according to IEC 60068-2-672greference code according to IEC 60068-2-672gnumber of NO contacts for main contacts1number o	<ul> <li>_5 of the accessories that can be ordered</li> </ul>	<u>3RF2920-0FA08</u>
• 2 of the accessories that can be orderedpower regulator• 3 of the accessories that can be orderedload monitoring• 4 of the accessories that can be orderedload monitoring, basisCentral technical dataproduct functionpower loss [W] for rated value of the current• at AC in hot operating state20 W• at AC in hot operating state per pole20 W• at AC in hot operating state per pole20 W• at AC in hot operating state per pole0.4 WInsulation voltage rated value600 Vdegree of pollution3type of voltage of the control supply voltageDCsurge voltage resistance according to IEC 60068-2-715g/ 11 msvibration resistance according to IEC 60068-2-62greference code according to IEC 60068-2-62greference c	product designation	
• 3 of the accessories that can be ordered       load monitoring         • 4 of the accessories that can be ordered       load monitoring, basis         Ceneral technical data	<ul> <li>_1 of the accessories that can be ordered</li> </ul>	terminal cover
• _ 4 of the accessories that can be ordered       load monitoring, basis         General technical data       instantaneous switching         product function       instantaneous switching         power loss [W] for rated value of the current       20 W         • at AC in hot operating state       20 W         • at AC in hot operating state per pole       20 W         • without load current share typical       0.4 W         Insulation voltage rated value       600 V         degree of pollution       3         type of voltage rotins upply voltage       DC         surge voltage resistance according to IEC 60068-2-27       15g / 11 ms         vibration resistance according to IEC 60068-2-26       2g         reference code according to IEC 60068-2-26       2g         reference code according to IEC 60068-2-26       2g         reference code according to IEC 60068-2-6       2g         reference code according to IEC 60068-2-6       2g         reference code according to IEC 60068-2-6       2g         substance Prohibitance (Date)       05/28/2009         Main circuit       1         number of poles for main current circuit       1         number of NC contacts for main contacts       0         operating voltage at AC       48 460 V	<ul> <li>_2 of the accessories that can be ordered</li> </ul>	power regulator
• _ 5 of the accessories that can be ordered       load monitoring, basis         General technical data         product function       instantaneous switching         power loss [W] for rated value of the current       .         • at AC in hot operating state       20 W         • at AC in hot operating state per pole       20 W         • without load current share typical       0.4 W         Insulation voltage rated value       600 V         degree of pollution       3         type of voltage of the control supply voltage       DC         surge voltage resistance of main circuit rated value       6 kV         shock resistance according to IEC 60068-2-27       15g / 11 ms         vibration resistance according to IEC 60068-2-6       2g         reference code according to IEC 61346-2       Q         reference code according to IEC 61346-2       Q         Substance Prohibitance (Date)       05/28/2009         Main circuit       1         number of NO contacts for main current circuit       1         number of NO contacts for main contacts       0         operating voltage at AC       •         • at 50 Hz rated value       48 460 V         • at 50 Hz rated value       48 460 V         • at 60 Hz rated value       50	<ul> <li>_3 of the accessories that can be ordered</li> </ul>	converter
General technical data       instantaneous switching         product function       instantaneous switching         power loss [W] for rated value of the current       20 W         • at AC in hot operating state       20 W         • at AC in hot operating state per pole       20 W         • without load current share typical       0.4 W         Insulation voltage rated value       600 V         degree of pollution       3         type of voltage of the control supply voltage       DC         surge voltage resistance of main circuit rated value       6 kV         shock resistance according to IEC 60068-2-77       15g / 11 ms         vibration resistance according to IEC 60068-2-62       2g         reference code according to EIE 61346-2       Q         Substance Prohibitance (Date)       05/28/2009         Main circuit       1         number of NO contacts for main current circuit       1         number of NO contacts for main contacts       0         operating voltage at AC       •         • at 50 Hz rated value       48 460 V         • at 60 Hz rated value       48 460 V         • at 60 Hz rated value       50 60 Hz	<ul> <li>_4 of the accessories that can be ordered</li> </ul>	load monitoring
product function         instantaneous switching           power loss [W] for rated value of the current         20 W           • at AC in hot operating state         20 W           • at AC in hot operating state per pole         20 W           • without load current share typical         0.4 W           insulation voltage rated value         600 V           degree of pollution         3           type of voltage of the control supply voltage         DC           surge voltage resistance of main circuit rated value         6 kV           shock resistance according to IEC 60068-2-27         15g / 11 ms           vibration resistance according to IEC 60068-2-6         2g           reference code according to IEC 80068-2-6         2g           reference code according to IEC 81346-2         Q           Substance Prohibitance (Date)         05/28/2009           Main circuit         1           number of NC contacts for main contacts         1           number of NC contacts for main contacts         0           operating voltage at AC         48 460 V           • at 50 Hz rated value         48 460 V           • at 60 Hz rated value         50 60 Hz	<ul> <li>_5 of the accessories that can be ordered</li> </ul>	load monitoring, basis
power loss [W] for rated value of the current         • at AC in hot operating state       20 W         • at AC in hot operating state per pole       20 W         • at AC in hot operating state per pole       20 W         • without load current share typical       0.4 W         insulation voltage rated value       600 V         degree of pollution       3         type of voltage of the control supply voltage       DC         surge voltage resistance of main circuit rated value       6 kV         shock resistance according to IEC 60068-2-27       15g / 11 ms         vibration resistance according to IEC 60068-2-6       2g         reference code according to IEC 60068-2-6       2g         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       05/28/2009         Main circuit       1         number of poles for main current circuit       1         number of NC contacts for main contacts       0         operating voltage at AC       0         • at 50 Hz rated value       48 460 V         • at 50 Hz rated value       48 460 V         • at 60 Hz rated value       50 60 Hz	General technical data	
• at AC in hot operating state20 W• at AC in hot operating state per pole20 W• without load current share typical0.4 Winsulation voltage rated value600 Vdegree of pollution3type of voltage of the control supply voltageDCsurge voltage resistance of main circuit rated value6 kVshock resistance according to IEC 60068-2-2715g / 11 msvibration resistance according to IEC 60068-2-62greference code according to IEC 60068-2-6QSubstance Prohibitance (Date)05/28/2009Main circuit1number of poles for main current circuit1number of NC contacts for main contacts0operating voltage at AC48 460 V• at 50 Hz rated value48 460 V• at 60 Hz rated value50 60 Hz	product function	instantaneous switching
• at AC in hot operating state per pole20 W• without load current share typical0.4 Winsulation voltage rated value600 Vdegree of pollution3type of voltage of the control supply voltageDCsurge voltage resistance of main circuit rated value6 kVshock resistance according to IEC 60068-2-2715g / 11 msvibration resistance according to IEC 60068-2-62greference code according to IEC 60068-2-62greference code according to IEC 81346-2QSubstance Prohibitance (Date)05/28/2009Main circuit1number of NO contacts for main contacts1number of NC contacts for main contacts0operating voltage at AC48 460 V• at 50 Hz rated value48 460 V• at 60 Hz rated value48 460 V• at 60 Hz rated value50 60 Hz	power loss [W] for rated value of the current	
• without load current share typical0.4 Winsulation voltage rated value600 Vdegree of pollution3type of voltage of the control supply voltageDCsurge voltage resistance of main circuit rated value6 kVshock resistance according to IEC 60068-2-2715g / 11 msvibration resistance according to IEC 60068-2-62greference code according to IEC 60068-2-6Qsubstance Prohibitance (Date)05/28/2009Main circuit1number of poles for main current circuit1number of NC contacts for main contacts1operating voltage at AC0• at 50 Hz rated value48 460 V• at 60 Hz rated value50 60 Hz	<ul> <li>at AC in hot operating state</li> </ul>	20 W
insulation voltage rated value600 Vdegree of pollution3type of voltage of the control supply voltageDCsurge voltage resistance of main circuit rated value6 kVshock resistance according to IEC 60068-2-2715g / 11 msvibration resistance according to IEC 60068-2-62greference code according to IEC 60068-2-62greference code according to IEC 81346-2QSubstance Prohibitance (Date)05/28/2009Main circuit1number of poles for main current circuit1number of NO contacts for main contacts1operating voltage at AC0• at 50 Hz rated value48 460 V• at 60 Hz rated value48 460 V• at 60 Hz rated value50 60 Hz	<ul> <li>at AC in hot operating state per pole</li> </ul>	20 W
degree of pollution3type of voltage of the control supply voltageDCsurge voltage resistance of main circuit rated value6 kVshock resistance according to IEC 60068-2-2715g / 11 msvibration resistance according to IEC 60068-2-62greference code according to EC 61346-2Qvibration resistance (Date)05/28/2009Main circuit1number of NO contacts for main contacts1number of NC contacts for main contacts0operating voltage at AC48 460 V• at 50 Hz rated value48 460 V• at 60 Hz rated value50 60 Hz	<ul> <li>without load current share typical</li> </ul>	0.4 W
type of voltage of the control supply voltageDCsurge voltage resistance of main circuit rated value6 kVshock resistance according to IEC 60068-2-2715g / 11 msvibration resistance according to IEC 60068-2-62greference code according to IEC 81346-2QQSubstance Prohibitance (Date)Substance Prohibitance (Date)05/28/2009Main circuit1number of NO contacts for main contacts1number of NC contacts for main contacts0operating voltage at AC48 460 V• at 50 Hz rated value48 460 V• at 60 Hz rated value50 60 Hz	insulation voltage rated value	600 V
surge voltage resistance of main circuit rated value6 kVshock resistance according to IEC 60068-2-2715g / 11 msvibration resistance according to IEC 60068-2-62greference code according to EN 61346-2Qreference code according to IEC 81346-2QSubstance Prohibitance (Date)05/28/2009Main circuit1number of poles for main current circuit1number of NO contacts for main contacts1operating voltage at AC0• at 50 Hz rated value48 460 V• at 60 Hz rated value50 60 Hz	degree of pollution	3
shock resistance according to IEC 60068-2-2715g / 11 msvibration resistance according to IEC 60068-2-62greference code according to EN 61346-2Qreference code according to IEC 81346-2QSubstance Prohibitance (Date)05/28/2009Main circuit1number of poles for main current circuit1number of NO contacts for main contacts1operating voltage at AC0• at 50 Hz rated value48 460 V• at 60 Hz rated value50 60 Hz	type of voltage of the control supply voltage	DC
vibration resistance according to IEC 60068-2-62greference code according to EN 61346-2Qreference code according to IEC 81346-2QSubstance Prohibitance (Date)05/28/2009Main circuit1number of poles for main current circuit1number of NO contacts for main contacts1number of NC contacts for main contacts0operating voltage at AC48 460 V• at 50 Hz rated value48 460 V• at 60 Hz rated value50 60 Hz	surge voltage resistance of main circuit rated value	6 kV
reference code according to EN 61346-2Qreference code according to IEC 81346-2QSubstance Prohibitance (Date)05/28/2009Main circuit1number of poles for main current circuit1number of NO contacts for main contacts0operating voltage at AC0• at 50 Hz rated value48 460 V• at 60 Hz rated value48 460 V• operating frequency rated value50 60 Hz	shock resistance according to IEC 60068-2-27	15g / 11 ms
reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       05/28/2009         Main circuit       1         number of poles for main current circuit       1         number of NO contacts for main contacts       1         number of NC contacts for main contacts       0         operating voltage at AC       0         • at 50 Hz rated value       48 460 V         • at 60 Hz rated value       48 460 V         • at 60 Hz rated value       50 60 Hz	vibration resistance according to IEC 60068-2-6	2g
Substance Prohibitance (Date)       05/28/2009         Main circuit       1         number of poles for main current circuit       1         number of NO contacts for main contacts       1         number of NC contacts for main contacts       0         operating voltage at AC       0         • at 50 Hz rated value       48 460 V         • at 60 Hz rated value       48 460 V         operating frequency rated value       50 60 Hz	reference code according to EN 61346-2	Q
Main circuit       1         number of poles for main current circuit       1         number of NO contacts for main contacts       1         number of NC contacts for main contacts       0         operating voltage at AC       0         • at 50 Hz rated value       48 460 V         • at 60 Hz rated value       48 460 V         operating frequency rated value       50 60 Hz	reference code according to IEC 81346-2	Q
number of poles for main current circuit       1         number of NO contacts for main contacts       1         number of NC contacts for main contacts       0         operating voltage at AC       0         • at 50 Hz rated value       48 460 V         • at 60 Hz rated value       48 460 V         operating frequency rated value       50 60 Hz	Substance Prohibitance (Date)	05/28/2009
number of NO contacts for main contacts       1         number of NC contacts for main contacts       0         operating voltage at AC       -         • at 50 Hz rated value       48 460 V         • at 60 Hz rated value       48 460 V         operating frequency rated value       50 60 Hz	Main circuit	
number of NC contacts for main contacts       0         operating voltage at AC       -         • at 50 Hz rated value       48 460 V         • at 60 Hz rated value       48 460 V         operating frequency rated value       50 60 Hz	number of poles for main current circuit	1
operating voltage at AC     48460 V       • at 50 Hz rated value     48460 V       • at 60 Hz rated value     48460 V       • operating frequency rated value     5060 Hz	number of NO contacts for main contacts	1
• at 50 Hz rated value     48 460 V       • at 60 Hz rated value     48 460 V       • operating frequency rated value     50 60 Hz	number of NC contacts for main contacts	0
• at 60 Hz rated value 48 460 V operating frequency rated value 50 60 Hz	operating voltage at AC	
operating frequency rated value 50 60 Hz	• at 50 Hz rated value	48 460 V
	• at 60 Hz rated value	48 460 V
operating range relative to the operating voltage at AC	operating frequency rated value	50 60 Hz
	operating range relative to the operating voltage at AC	

• at 50 Hz	40 506 V			
• at 60 Hz	40 506 V			
operational current				
<ul> <li>at AC-51 rated value</li> </ul>	20 A			
<ul> <li>at AC-51 according to IEC 60947-4-3</li> </ul>	13.2 A			
according to UL 508 rated value	12 A			
operational current minimum	500 mA			
rate of voltage rise at the thyristor for main contacts maximum permissible	1 000 V/µs			
blocking voltage at the thyristor for main contacts maximum permissible	1 200 V			
reverse current of the thyristor	10 mA			
derating temperature	40 °C			
surge current resistance rated value	600 A			
I2t value maximum	1 800 A <sup>2.</sup> s			
Control circuit/ Control				
type of voltage of the control supply voltage	DC			
control supply voltage 1				
at DC rated value	30 V			
● at DC	15 24 V			
control supply voltage				
at DC initial value for signal <1> detection	15 V			
at DC full-scale value for signal<0> recognition	5 V			
control current at minimum control supply voltage				
• at DC	13 mA			
control current at DC rated value	15 mA			
ON-delay time	1 ms			
OFF-delay time	1 ms; additionally max. one half-wave			
Auxiliary circuit				
	0			
number of NC contacts for auxiliary contacts				
number of NO contacts for auxiliary contacts	0			
number of CO contacts for auxiliary contacts	0			
Installation/ mounting/ dimensions				
fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715			
side-by-side mounting	Yes			
design of the thread of the screw for securing the equipment	M4			
height	95 mm			
width	22.5 mm			
depth	120 mm			
Connections/ Terminals				
type of electrical connection				
• for main current circuit	screw-type terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals			
type of connectable conductor cross-sections				
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 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>			
<ul> <li>for AWG cables for main contacts</li> </ul>	2x (14 10)			
connectable conductor cross-section for main contacts				
solid or stranded	1.5 6 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	1 10 mm <sup>2</sup>			
type of connectable conductor cross-sections				
for auxiliary and control contacts				
- solid	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)			
<ul> <li>— finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> )			
- finely stranded without core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (AWG 20 12)			
<ul> <li>for AWG cables for auxiliary and control contacts</li> </ul>				
·				
AWG number as coded connectable conductor cross section for	10 14			
·				

of DIAZED fuse usable     of NEOZED fuse usable Certificates/ approvals	<u>5SE2320</u>				
	<u>5SE2320</u>				
<ul> <li>of DIAZED fuse usable</li> </ul>					
	<u>5SB2711</u>				
manufacturer's article number					
• at cylindrical design 22 x 58 mm usable	relays 3NW6205-1: These fuses have a smaller rated current than the semiconductor relays				
• at cylindrical design 14 x 51 mm usable	relays <u>3NW6105-1: These fuses have a smaller rated current than the semiconductor</u>				
<ul> <li>at cylindrical design 10 x 38 mm usable</li> </ul>	3NW6005-1: These fuses have a smaller rated current than the semiconductor				
• at NH design usable	<u>3NA6807</u>				
cylindrical design 22 x 58 mm usable manufacturer's article number of the gG fuse					
<ul> <li>cylindrical design 14 x 51 mm usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable</li> </ul>	<u>3NC2263</u>				
<ul> <li>of back-up R fuse link for semiconductor protection at</li> </ul>	<u>3NC1450</u>				
<ul> <li>of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable</li> </ul>	<u>3NC1032</u>				
<ul> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> </ul>	<u>3NE8015-1</u>				
<ul> <li>usable</li> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> </ul>	<u>5SE1325</u>				
• of gS fuse for semiconductor protection at NH design	<u>3NE1814-0</u>				
manufacturer's article number					
hort-circuit protection, design of the fuse link					
CISPR11 field-bound HF interference emission according to CISPR11	Class B for the domestic, business and commercial environments				
conducted HF interference emissions according to	Class A for industrial environment				
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharging / 8 kV air discharging, behavior criterion 2				
field-based interference according to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, behavior criterion 1				
<ul> <li>due to high-frequency radiation according to IEC 61000- 4-6</li> </ul>	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1				
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV behavior criterion 2				
• due to conductor-earth surge according to IEC 61000-4-5	2 kV behavior criterion 2				
• due to burst according to IEC 61000-4-4	2 kV / 5 kHz behavior criterion 2				
conducted interference					
ectromagnetic compatibility					
during storage	-55 +80 °C				
during operation	-25 +60 °C				
ambient temperature					
installation altitude at height above sea level maximum	1 000 m				
mbient conditions					
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front				
protection class IP on the front according to IEC 60529	IP20				
afety related data					
for auxiliary and control contacts	7 mm				
for main contacts	7 mm				
of the auxiliary and control contacts  stripped length of the cable	M3				
• for main contacts	M4				
design of the thread of the connection screw					
for auxiliary and control contacts with screw-type terminals	4.5 5.3 lbf in				
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliant and control contacts with acrow type</li> </ul>	18 22 lbf-in				
tightening torque [lbf·in]					
terminals					
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.5 0.6 N·m				

SP M	<u>Confirmation</u>		EHC	RCM	CE EG-Konf.
Declaration of Con- formity	Test Certificates		other		Railway
UK CA	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	<u>Confirmation</u>	UDE VDE	<u>Vibration and Shock</u>
Further information					

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2320-1BA04

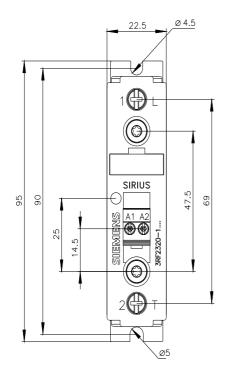
Cax online generator

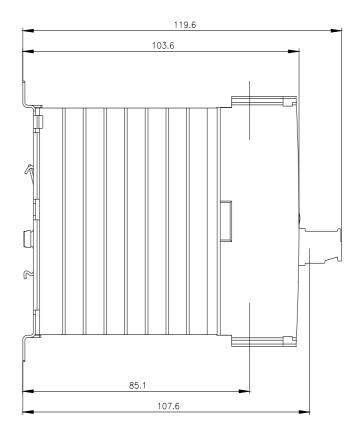
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2320-1BA04

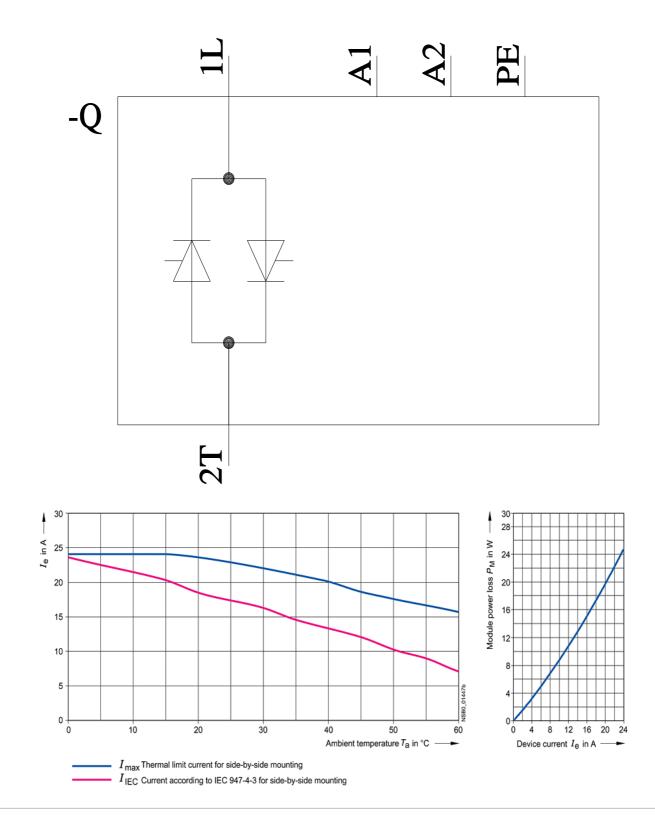
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2320-1BA04

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







last modified:

1/26/2022 🖸

## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens: 3RF23201BA04