## SIEMENS

## Data sheet

## 3RF2320-3AA04



Solid-state contactor 1-phase 3RF2 AC 51 / 20 A / 40  $^{\circ}\text{C}$  48-460 V / 24 V DC Ring cable connection

product brand name         SIRUS           product designation         solid-state contactor           design of the product         single-phase           product type designation         3RF2300-3FA88           = .1 of the accessories that can be ordered         3RF2200-3FA88           = .3 of the accessories that can be ordered         3RF2200-3FA88           = .4 of the accessories that can be ordered         3RF2200-3FA88           = .4 of the accessories that can be ordered         terminal cover           = .3 of the accessories that can be ordered         terminal cover           = .4 of the accessories that can be ordered         terminal cover           = .4 of the accessories that can be ordered         terminal cover           = .4 of the accessories that can be ordered         terminal cover           = .4 of the accessories that can be ordered         terminal cover           = .4 of the accessories that can be ordered         tode monitoring           product function         zero-point switching           product braic that cont be ordered         20 W           • el AC in hot operating state         20 W           • el AC in hot operating value         600 V           degree of pollution         3           type of voltage         AC           • of the operating voltage <t< th=""><th></th><th></th></t<>		
design of the product     single-phase       product type designation     3RF23       manufacture's article number     3RF2300.0EA18      3 of the accessories that can be ordered     3RF200.0EA18      4 of the accessories that can be ordered     3RF200.0EA18      4 of the accessories that can be ordered     3RF200.0EA18      4 of the accessories that can be ordered     terminal cover      3 of the accessories that can be ordered     terminal cover      4 of the accessories that can be ordered     terminal cover      4 of the accessories that can be ordered     terminal cover      4 of the accessories that can be ordered     terminal cover      4 of the accessories that can be ordered     terminal cover      4 of the accessories that can be ordered     converter       is tack in hot operating state per ope     20 W       - at AC in hot operating state per ope     20 W       - without load current share typical     0.4 W       insulation voltage rated value     600 V       idgere of pollution     3       stype of voltage     AC       - of the cortoris supply voltage     DC       surge voltage resistance according to EC 60068-2.27     15g / 11 ms       vibration resistance according to EC 61346-2     Q       reference code according to EC 610068-2.42     Q       Substa	product brand name	SIRIUS
product type designation         3RF23           manufacturer's article number         3RF2900-3PA88           -1 of the accessories that can be ordered         3RF2900-0EA18           -3 of the accessories that can be ordered         3RF2920-0CA16           product designation         terminal cover           -1 of the accessories that can be ordered         terminal cover           -3 of the accessories that can be ordered         converter           -3 of the accessories that can be ordered         load monitoring           Ceneral tochnical data         zero-point switching           product function         zero-point switching           power loss [W] for rated value of the current         -0 (W)           - et AC in hot operating state         20 W           - without load current share typical         0.4 W           Insulation voltage rated value         600 V           degree of pollution         3           type of voltage         AC           - of the control supply voltage         AC           of the control supply voltage         AC           shock resistance according to IEC 60068-2-7         15g/11 ms           vibration resistance according to IEC 60068-2-6         2g           reference code according to IEC 60068-2-6         2g           reference c	product designation	solid-state contactor
manufacturer's article number     3RE2000-3PA88       • 1 of the accessories that can be ordered     3RE2000-3PA88       • 3 of the accessories that can be ordered     3RE2000-0EA18       • 4 of the accessories that can be ordered     3RE2000-0EA18       • 1 of the accessories that can be ordered     3RE2000-0EA18       • 3 of the accessories that can be ordered     terminal cover       • 3 of the accessories that can be ordered     terminal cover       • 4 of the accessories that can be ordered     terminal cover       • 4 of the accessories that can be ordered     terminal cover       • 4 of the accessories that can be ordered     terminal cover       • 4 of the accessories that can be ordered     terminal cover       • 4 of the accessories that can be ordered     terminal cover       • 4 of the accessories that can be ordered     terminal cover       • 4 of the accessories that can be ordered     terminal cover       • 4 of the accessories that can be ordered     20 W       • at AC in hot operating state per pole     20 W       • of the operating voltage     04 W       • of the operating voltage     AC       • of the operating voltage     DC       surge voltage resistance of main circuit rated value     6 kV       shock resistance ordering to IEC 60068-2.27     15g / 11 ms       vibration resistance according to IEC 60068-2.21     2g <th>design of the product</th> <th>single-phase</th>	design of the product	single-phase
•_1 of the accessories that can be ordered     3RF2900-3PA88       •_3 of the accessories that can be ordered     3RF2920-06A18       •_4 of the accessories that can be ordered     3RF2920-06A16       •_1 of the accessories that can be ordered     converter       •_3 of the accessories that can be ordered     converter       •_4 of the accessories that can be ordered     converter       •_4 of the accessories that can be ordered     load monitoring       Ceneral technical data     zero-point switching       product function     zero-point switching       power loss [W] for rated value of the current     at AC in hot operating state       • at AC in hot operating state prople     20 W       • without load current share typical     0.4 W       insulation voltage rated value     600 V       degree of pollution     3       type of voltage     AC       • of the corting to IEC 60068-2.47     11 ms       vibration resistance according to IEC 60068-2.46     2g       reference code according to IEC 61068-2.46     2g       reference code according to IEC 61068-2.47     15/21 / 11 ms       vibration resistance (Date)     05/28/2009       Main circuit     1       number of NC contacts for main contacts     1       number of NC contacts for main contacts     0       type of voltage of the operating voltage </th <th>product type designation</th> <th>3RF23</th>	product type designation	3RF23
• 3 of the accessories that can be ordered     3RF2920-0EA18       • 4 of the accessories that can be ordered     3RF2920-0GA16       product designation     •       • 1 of the accessories that can be ordered     terminal cover       • 3 of the accessories that can be ordered     toonverter       • 4 of the accessories that can be ordered     toonverter       • 4 of the accessories that can be ordered     toonverter       • 4 of the accessories that can be ordered     toonverter       • 0 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 vortage rated value     600 V       degree of pollution     3       type of voltage     DC       • of the operating voltage     DC       surge voltage 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 60068-2-7     2g       reference code according to IEC 60068-2-6     2g       reference code according to IEC 60068-2-7     2g       reference code according to IEC 60068-2-7     2g       vibration resistance according to IEC 60068-2-6	manufacturer's article number	
• 4 of the accessories that can be ordered     3RF2920-0GA18       product designation     terminal cover       • 1 of the accessories that can be ordered     converter       • 3 of the accessories that can be ordered     load monitoring       Gonoral technical data	<ul> <li>_1 of the accessories that can be ordered</li> </ul>	<u>3RF2900-3PA88</u>
product designation     terminal cover       -1 of the accessories that can be ordered     converter       -3 of the accessories that can be ordered     load monitoring       General technical data     zero-point switching       product function     zero-point switching       of the accessories that can be ordered     000 W       • at AC in hot operating state     20 W       • without load current share typical     0.4 W       • insulation voltage rated value     600 V       degree of pollution     3       type of voltage     AC       • of the operating totage     DC       surge voltage resistance of main circuit rated value     6 kV       shock resistance according to IEC 60068-27     15g / 11 ms       vibration resistance according to IEC 60068-27     2g       reference code according to IEC 60068-2.4     Q       substance Prohibitance (Date)     0.528/2009       Main circuit     1       number of NO contacts for main contacts     1       number of NO contacts for main contacts     1       number of NO contacts for main contacts     0       type of voltage of the operating voltage     AC	<ul> <li>_3 of the accessories that can be ordered</li> </ul>	<u>3RF2900-0EA18</u>
• _1 of the accessories that can be ordered       terminal cover         • _3 of the accessories that can be ordered       load monitoring         General technical data	<ul> <li>_4 of the accessories that can be ordered</li> </ul>	<u>3RF2920-0GA16</u>
•_3 of the accessories that can be ordered     load monitoring       General technical data     zero-point switching       product function     zero-point 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     0.4 W       insulation voltage rated value     600 V     degree of pollution       degree of pollution     3     type of voltage       • of the cortrol supply voltage     AC       • of the cortrol supply voltage     AC       subcx resistance according to IEC 60068-2-67     2g       reference code according to IEC 60068-2-62     2g       reference code according to IEC 60068-	product designation	
• _4 of the accessories that can be ordered     load monitoring       General technical data     zero-point switching       product function     zero-point switching       power loss [W] for rated value of the current     0       • 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     AC       • of the operating voltage     DC       surge voltage 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 60068-2-6     2g       reference code according to IEC 60068-2-6     2g       substance Prohibitance (Date)     05/28/2009       Main circuit     1       number of NO contacts for main contacts     1       number of NC contacts for main contacts     0       type of voltage of the operating voltage     AC       • at AC     - at 50 Hz rated value       48 460 V     - at 60 Hz rated value       at 60 W     - at 60 Hz rated value	<ul> <li>_1 of the accessories that can be ordered</li> </ul>	terminal cover
General technical data       zero-point switching         product function       zero-point switching         o 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       AC         • of the operating 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 81346-2       Q         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         type of voltage       AC         • at AC       -at 50 Hz rated value         • at AC       -at 60 Hz rated value         • at AC Hated value       48 460 V         - at 60 Hz rated value       48 460 V         - at 60 Hz rated value <t< th=""><th><ul> <li>_3 of the accessories that can be ordered</li> </ul></th><th>converter</th></t<>	<ul> <li>_3 of the accessories that can be ordered</li> </ul>	converter
product function         zero-point 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         AC           • of the operating 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 EC 81366-2         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           type of voltage of the operating voltage         AC           • at AC         -           operating voltage         AC           operating to IEC 8008-2-6         2g           reference code according to IEC 8036-2         Q           Substance Prohibitance (Date)	<ul> <li>_4 of the accessories that can be ordered</li> </ul>	load monitoring
power loss [W] for rated value of the current       i       i         • 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       AC         • of the operating voltage       DC         surge voltage resistance of main circuit rated value       6 kV         shock resistance according to IEC 60068-2-7       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         Nation circuit       1         number of poles for main current circuit       1         number of NC contacts for main contacts       0         type of voltage       AC         operating voltage       AC         operating voltage       AC         uter of NC contacts for main contacts       1         number of NC contacts for main contacts       0         type of voltage of the operating voltage       AC         operating voltage       AC         operating voltage	General technical data	
• 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     AC       • of the operating voltage     DC       surge voltage resistance of main circuit rated value     6 kV       shock 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 NC contacts for main contacts     1       number of NC contacts for main contacts     0       type of voltage     AC       - at 6D Hz rated value     48 460 V       - at 60 Hz rated value     50 60 Hz	product function	zero-point switching
• 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       AC         • of the operating 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 EN 61346-2       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         type of voltage       AC         • at AC       - at 50 Hz rated value         • at AC       - at 60 Hz rated value         - at 60 Hz rated value       48 460 V         - at 60 Hz rated value       50 60 Hz	power loss [W] for rated value of the current	
• without load current share typical       0.4 W         Insulation voltage rated value       600 V         degree of pollution       3         type of voltage       AC         • of the operating 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 81346-2       Q         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         type of voltage       AC         • at AC       -         - at 50 Hz rated value       48 460 V         - at 60 Hz rated value       48 460 V         - at 60 Hz rated value       48 460 V	<ul> <li>at AC in hot operating state</li> </ul>	20 W
insulation voltage rated value       600 V         degree of pollution       3         type of voltage       AC         • of the operating 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 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         type of voltage       AC         • at AC       -         - at 50 Hz rated value       48 460 V         - at 60 Hz rated value       48 460 V         - at 60 Hz rated value       48 460 V	<ul> <li>at AC in hot operating state per pole</li> </ul>	20 W
degree of pollution       3         type of voltage       AC         • of the operating 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       Q         gubstance Prohibitance (Date)       05/28/2009         Main circuit       1         number of NO contacts for main contacts       1         number of NC contacts for main contacts       0         type of voltage       AC         • 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>without load current share typical</li> </ul>	0.4 W
type of voltage• of the operating voltageAC• 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 80068-2-6Qreference code according to IEC 81346-2QSubstance Prohibitance (Date)05/28/2009Main circuit1number of poles for main current circuit1number of NC contacts for main contacts1number of NC contacts for main contacts0type of voltageACoperating voltageAC- at 50 Hz rated value48 460 V- at 60 Hz rated value48 460 V- at 60 Hz rated value50 60 Hz	insulation voltage rated value	600 V
• of the operating voltageAC• 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 contacts1number of NC contacts for main contacts0type of voltage of the operating voltageACoperating voltage48 460 V- at 60 Hz rated value48 460 V- at 60 Hz rated value50 60 Hz	degree of pollution	3
• 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 61346-2Qreference code according to IEC 81346-2QSubstance Prohibitance (Date)05/28/2009Main circuit1number of poles for main current circuit1number of NC contacts for main contacts1number of NC contacts for main contacts0type of voltage of the operating voltageACoperating voltage48 460 V- at 50 Hz rated value48 460 V- at 60 Hz rated value48 460 V- at 60 Hz rated value50 60 Hz	type of voltage	
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 EN 61346-2       Q         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         type of voltage of the operating voltage       AC         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>of the operating voltage</li> </ul>	AC
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 contacts0type of voltage of the operating voltageACoperating voltage48 460 V- at 60 Hz rated value48 460 V- at 60 Hz rated value50 60 Hz	<ul> <li>of the control supply voltage</li> </ul>	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 contacts0type of voltage of the operating voltageACoperating voltage48 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 contacts1number of NC contacts for main contacts0type of voltage of the operating voltageACoperating voltage48 460 V- at 50 Hz rated value48 460 Voperating frequency rated value50 60 Hz	shock resistance according to IEC 60068-2-27	15g / 11 ms
reference 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 contacts0type of voltage of the operating voltageACoperating voltage4- at 50 Hz rated value48 460 V- at 60 Hz rated value50 60 Hz	vibration resistance according to IEC 60068-2-6	2g
Substance Prohibitance (Date)05/28/2009Main circuit1number of poles for main current circuit1number of NO contacts for main contacts1number of NC contacts for main contacts0type of voltage of the operating voltageACoperating voltageAC- at AC- at 50 Hz rated value- at 60 Hz rated value48 460 Voperating frequency rated value50 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         type of voltage of the operating voltage       AC         operating voltage       AC         - at AC       - at 50 Hz rated value         - 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 circuit1number of NO contacts for main contacts1number of NC contacts for main contacts0type of voltage of the operating voltageACoperating voltageACoperating voltage48 460 V- at 50 Hz rated value48 460 Voperating frequency rated value50 60 Hz	Substance Prohibitance (Date)	05/28/2009
number of NO contacts for main contacts       1         number of NC contacts for main contacts       0         type of voltage of the operating voltage       AC         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 contacts0type of voltage of the operating voltageACoperating voltage	number of poles for main current circuit	1
type of voltage of the operating voltage       AC         operating voltage	number of NO contacts for main contacts	1
operating voltage       • at AC       - at 50 Hz rated value       - at 60 Hz rated value       48 460 V       operating frequency rated value       50 60 Hz	number of NC contacts for main contacts	0
at AC	type of voltage of the operating voltage	AC
	operating voltage	
— at 60 Hz rated value     48 460 V       operating frequency rated value     50 60 Hz	• 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	17.6 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	
<ul> <li>at DC initial value for signal &lt;1&gt; detection</li> </ul>	15 V
<ul> <li>at DC full-scale value for signal&lt;0&gt; recognition</li> </ul>	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; additionally max. one half-wave
OFF-delay time	1 ms; additionally max. one half-wave
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
	0
number of NO contacts for auxiliary contacts	
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	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	Ring cable lug connection
<ul> <li>for auxiliary and control circuit</li> </ul>	ring terminal lug connection
type of connectable conductor cross-sections	
<ul> <li>type of connectable conductor cross-sections</li> <li>for main contacts for JIS cable lug</li> </ul>	JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5
	JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25
for main contacts for JIS cable lug	
<ul><li> for main contacts for JIS cable lug</li><li> for DIN cable lug for main contacts</li></ul>	
for main contacts for JIS cable lug     for DIN cable lug for main contacts     type of connectable conductor cross-sections	
for main contacts for JIS cable lug     for DIN cable lug for main contacts     type of connectable conductor cross-sections     for auxiliary and control contacts	DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25
for main contacts for JIS cable lug     for DIN cable lug for main contacts      type of connectable conductor cross-sections     for auxiliary and control contacts         — solid         — finely stranded with core end processing	DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
for main contacts for JIS cable lug     for DIN cable lug for main contacts      type of connectable conductor cross-sections     for auxiliary and control contacts         — solid         — finely stranded with core end processing         — finely stranded without core end processing	DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>for main contacts for JIS cable lug</li> <li>for DIN cable lug for main contacts</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary and control contacts         <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary and control contacts</li> </ul> </li> </ul>	DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>for main contacts for JIS cable lug</li> <li>for DIN cable lug for main contacts</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary and control contacts         <ul> <li>– solid</li> <li>– finely stranded with core end processing</li> <li>– finely stranded without core end processing</li> <li>for AWG cables for auxiliary and control contacts</li> </ul> </li> </ul>	DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (AWG 20 12)
<ul> <li>for main contacts for JIS cable lug</li> <li>for DIN cable lug for main contacts</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary and control contacts         <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary and control contacts</li> </ul> </li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> </ul>	DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (AWG 20 12) 2 2.5 N·m
<ul> <li>for main contacts for JIS cable lug</li> <li>for DIN cable lug for main contacts</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary and control contacts         <ul> <li>– solid</li> <li>– finely stranded with core end processing</li> <li>– finely stranded without core end processing</li> <li>for AWG cables for auxiliary and control contacts</li> </ul> </li> </ul>	DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (AWG 20 12)
<ul> <li>for main contacts for JIS cable lug</li> <li>for DIN cable lug for main contacts</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary and control contacts         <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary and control contacts</li> </ul> </li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type</li> </ul> </li> </ul>	DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (AWG 20 12) 2 2.5 N·m
<ul> <li>for main contacts for JIS cable lug</li> <li>for DIN cable lug for main contacts</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary and control contacts         <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary and control contacts</li> </ul> </li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> </ul> </li> </ul>	DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (AWG 20 12) 2 2.5 N·m

design of the thread of the connection screw	Mr
• for main contacts	M5
of the auxiliary and control contacts	M3
stripped length of the cable	10 mm
• for main contacts	10 mm
for auxiliary and control contacts	10 mm
Safety related data	
protection class IP on the front according to IEC 60529	IP00; IP20 with cover
touch protection on the front according to IEC 60529 Ambient conditions	finger-safe, for vertical contact from the front with cover
installation altitude at height above sea level maximum	1 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Electromagnetic compatibility	
conducted interference	
due to burst according to IEC 61000-4-4	2 kV / 5 kHz behavior criterion 2
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV behavior criterion 2
due to conductor-conductor surge according to IEC	1 kV behavior criterion 2
61000-4-5	
<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
field-based interference according to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, behavior criterion 1
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharging / 8 kV air discharging, behavior criterion 2
conducted HF interference emissions according to CISPR11	Class A for industrial environment
field-bound HF interference emission according to CISPR11	Class B for the domestic, business and commercial environments
Short-circuit protection, design of the fuse link	
manufacturer's article number	
<ul> <li>of gS fuse for semiconductor protection at NH design usable</li> </ul>	<u>3NE1814-0</u>
<ul> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> </ul>	<u>5SE1325</u>
<ul> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> </ul>	<u>3NE8015-1</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>
• of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable	<u>3NC1450</u>
of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable	<u>3NC2263</u>
manufacturer's article number of the gG fuse	2006007
<ul> <li>at NH design usable</li> <li>at cylindrical design 10 x 22 mm usable</li> </ul>	<u>3NA6807</u> 2NW6005 1: These fuses have a smaller rated surrent than the comisenductor
<ul> <li>at cylindrical design 10 x 38 mm usable</li> <li>at cylindrical design 14 x 51 mm usable</li> </ul>	<u>3NW6005-1: These fuses have a smaller rated current than the semiconductor</u> relays <u>3NW6105-1: These fuses have a smaller rated current than the semiconductor</u>
at cylindrical design 22 x 58 mm usable	relays 3NW6205-1: These fuses have a smaller rated current than the semiconductor
	relays
manufacturer's article number	5000744
of DIAZED fuse usable	<u>55B2711</u>
of NEOZED fuse usable	<u>5SE2320</u>
Certificates/ approvals General Product Approval	EMC Declaration of Con- formity
Confirmation	•
Declaration of Con- formity Test Certificates other	



Type Test Certificates/Test Report

**Confirmation** 



## 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=3RF2320-3AA04

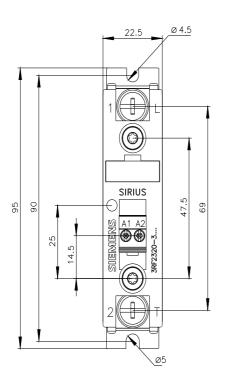
Cax online generator

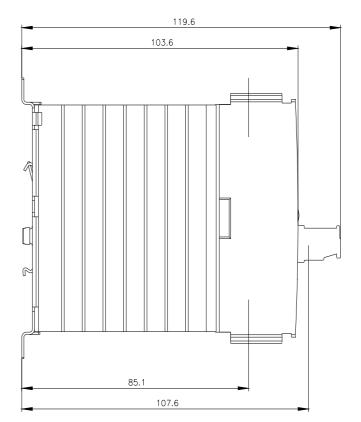
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2320-3AA04

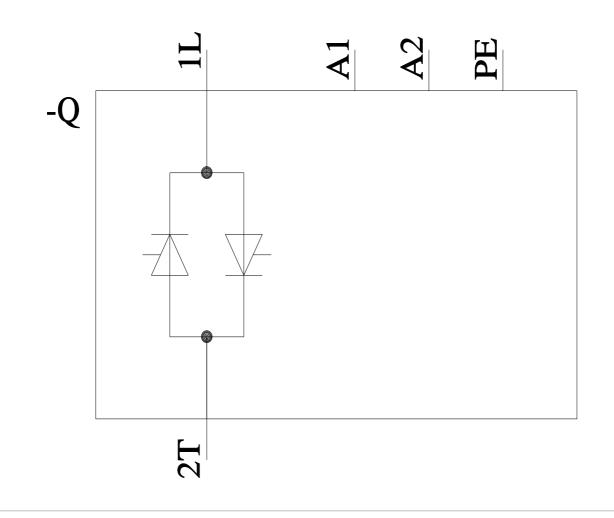
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2320-3AA04&lang=en







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