## SIEMENS

## Data sheet

## 3RF2340-1BA22

Solid-state contactor 1-phase 3RF2 AC 15 / 20 A / 40  $^\circ\text{C}$  24-230 V / 110-230 V AC Instantaneous switching

product brand name	SIRIUS
product designation	solid-state contactor
design of the product	single-phase
product type designation	3RF23
manufacturer's article number	
<ul> <li>_1 of the accessories that can be ordered</li> </ul>	<u>3RF2900-3PA88</u>
<ul> <li>_2 of the accessories that can be ordered</li> </ul>	<u>3RF2950-0HA33</u>
<ul> <li>_4 of the accessories that can be ordered</li> </ul>	<u>3RF2950-0GA33</u>
product designation	
<ul> <li>_1 of the accessories that can be ordered</li> </ul>	terminal cover
<ul> <li>_2 of the accessories that can be ordered</li> </ul>	power regulator
<ul> <li>_4 of the accessories that can be ordered</li> </ul>	load monitoring
General technical data	
product function	instantaneous switching
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	44 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	44 W
<ul> <li>without load current share typical</li> </ul>	3.5 W
insulation voltage rated value	600 V
degree of pollution	3
type of voltage of the control supply voltage	AC
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	
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	
<ul> <li>at 50 Hz rated value</li> </ul>	24 230 V
<ul> <li>at 60 Hz rated value</li> </ul>	24 230 V
operating frequency rated value	50 60 Hz
operating range relative to the operating voltage at AC	
• at 50 Hz	20 253 V
• at 60 Hz	20 253 V
operational current	
<ul> <li>at AC-51 rated value</li> </ul>	40 A
<ul> <li>at AC-51 according to IEC 60947-4-3</li> </ul>	33 A
<ul> <li>according to UL 508 rated value</li> </ul>	20 A

	500			
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	800 V			
reverse current of the thyristor	10 mA			
derating temperature	40 °C			
surge current resistance rated value	1 200 A			
l2t value maximum	7 200 A <sup>2</sup> ·s			
Control circuit/ Control				
type of voltage of the control supply voltage	AC			
control supply voltage 1 at AC				
• at 50 Hz	110 230 V			
• at 60 Hz	110 230 V			
control supply voltage frequency				
• 1 rated value	50 Hz			
• 2 rated value	60 Hz			
control supply voltage at AC	40.14			
<ul> <li>at 50 Hz full-scale value for signal&lt;0&gt; recognition</li> <li>at 60 Hz full-scale value for signal&lt;0&gt; recognition</li> </ul>	40 V 40 V			
<ul> <li>at 60 H2 full-scale value for signal&lt;0&gt; recognition</li> <li>control supply voltage</li> </ul>	V UF			
at AC initial value for signal <1> detection	90 V			
symmetrical line frequency tolerance	5 Hz			
control current at minimum control supply voltage				
• at AC	2 mA			
control current at AC rated value	15 mA			
ON-delay time	40 ms			
OFF-delay time	40 ms; additionally max. one half-wave			
Auxiliary circuit				
number of NC contacts for auxiliary contacts	0			
number of NO contacts for auxiliary contacts	0			
number of CO contacts for auxiliary contacts	0			
Installation/ mounting/ dimensions				
Installation/ mounting/ dimensions fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm			
fastening method	according to IEC 60715			
fastening method <ul> <li>side-by-side mounting</li> </ul>	according to IEC 60715 Yes			
fastening method	according to IEC 60715			
fastening method • side-by-side mounting design of the thread of the screw for securing the	according to IEC 60715 Yes			
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment	according to IEC 60715 Yes M4			
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height	according to IEC 60715 Yes M4 100 mm			
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width	according to IEC 60715 Yes M4 100 mm 67.5 mm			
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection	according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm			
fastening method         • side-by-side mounting         design of the thread of the screw for securing the         equipment         height         width         depth         Connections/ Terminals         type of electrical connection         • for main current circuit	according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm			
fastening method         • side-by-side mounting         design of the thread of the screw for securing the         equipment         height         width         depth         Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit	according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm			
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fastening method         • side-by-side mounting         design of the thread of the screw for securing the equipment         height         width         depth         Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections         • for main contacts         — solid         — finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         e solid or stranded         • finely stranded with core end processing         • solid or stranded         • finely stranded with core end processing         • poild         — solid         — finely stranded with core end processing         • for auxiliary and control contacts         — solid         — finely stranded with core end processing         • for auxiliary and control contacts         — solid         — finely stranded with core end processing	according to IEC 60715 Yes M4 100 mm 67.5 mm 144.5 mm screw-type terminals screw-type terminals $2x (1.5 2.5 mm^2), 2x (2.5 6 mm^2)$ $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), 1x 10 mm^2$ 2x (14 10) 1.5 6 mm <sup>2</sup> $1 10 mm^2$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$			
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61000-4-6       80 MHz 1 GHz 10 V/m, 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       Class A for industrial environment         conducted HF interference emissions according to CISPR11       4 kV contact discharging / 8 kV air discharging, behavior criterion 2         Class A for industrial environment       Class A for industrial environment         Short-circuit protection, design of the fuse link       Class B for the domestic, business and commercial environments         Short-circuit protection, design of the fuse link       SNE1802-0         e of full range R fuse link for semiconductor protection at cylindrical design usable       SNE1802-0         e of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable       SNC1450         e of black-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable       SNC2200         e at cylindrical design 14 x 51 mm usable       SNW6117-1         e at cylindrical design 14 x 51 mm usable       SNW6117-1         e at cylindrical design 22 x 58 mm usable       SNW6117-1         e at cylindrical design 22 x 58 mm usable       SNW6117-1         e of DIAZED fuse usable       SSE1351         e of NEOZED fuse usable       SSE37 These fuses have a smaller rated current than the semiconductor relays <th></th> <th></th>						
• for mails contacts with screw-type terminals         18		0.5 0.6 N·m				
	tightening torque [lbf·in]					
terminals design of the thread of the connection screw if or main contacts if the auxiliary and control contacts if or auxiliary and control contacts if or main conta	<ul> <li>for main contacts with screw-type terminals</li> </ul>	18 22 lbf·in				
• for main contacts     • of the auxiliary and control contacts     stripped length of the cable     • for main contacts     • for portection on the front according to IEC     • for other formere     • for graving to IEC 61000-4.4     • for formane contacts     • formane contacts     • for formane contacts     • formane contacts		4.5 5.3 lbf∙in				
	design of the thread of the connection screw					
stripped length of the cable     7 mm       • for mailing and control contacts     7 mm       afoy rolated data     7 mm       protection class IP on the front according to IEC 60529     IP20       for availance and control contacts     1000 m       minimum     1000 m       minimum     1000 m       ambient conditions     -25 +60 °C       -during periation     -25 +60 °C       -during storage     -55 +60 °C       -during storage     -25 +60 °C       -due to conductor-conductor surge according to IEC     1000 m       -due to conductor-conductor surge according to IEC     1 kV behavior criterion 2       -due to onductor-conductor surge according to IEC     1 40 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1       electrostact discharge according to IEC 61000-4-2     40 V contact discharging /8 kV air discharging, behavior criterion 2       Class A for industrial environment     Class A for industrial environment       CISPR11     Theforence emission according to IEC       fold-bascup R fuse link for semiconductor protectio	<ul> <li>for main contacts</li> </ul>	M4				
• for main contacts 7 mm     • for auxiliary and control	<ul> <li>of the auxiliary and control contacts</li> </ul>					
• for auxiliary and control contacts     for m     faty related data     ///     faty related data     ///      //////	stripped length of the cable					
afety related data       IP20         protection class IP on the front according to IEC 60529       Inger-safe, for vertical contact from the front         mbiont conditions       inger-safe, for vertical contact from the front         mbiont conditions       1000 m         ambient temporature       -25 +60 °C         - during operation       -25 +60 °C         - during storage       -25 +60 °C         - during operation       -25 +60 °C         - due to burst according to IEC 61000-4-4       2 kV / 5 kHz behavior criterion 2         - due to conductor-earth surge according to IEC 61000-4-5       2 kV / 5 kHz behavior criterion 2         - due to burst according to IEC 61000-4-3       2 kV / 5 kHz behavior criterion 2         - due to high-frequency radiation according to IEC 61000-4-3       80 MHz 1 GHz 10 V/m, behavior criterion 1         4 kV contact discharging / 8 kV air discharging, behavior criterion 2       Class A for industrial environment         CISPR11       Class A for industrial environment       Class A for industrial environment         ord Sf lues for semiconductor protection at cylindrical design usable       3NE1802-0       5SE1350         of bal range R tuse link for semiconductor protection at cylindrical design 14 x 51 mm usable       3NE1802-0       5SE1350         at cylindrical design 22 x 68 mm usable       3NE18017-1       3NE6817-1	<ul> <li>for main contacts</li> </ul>	7 mm				
protection class IP on the front according to IEC         IP20           MBERT conditions         finger-safe, for vertical contact from the front           mbient conditions         1 000 m						
66529       finger-safe, for vertical contact from the front         bient conditions       inger-safe, for vertical contact from the front         installation altitude at height above sea level maximum       ambient temperature         - during operation       -25 +60 °C         - during storage       -55 +60 °C         etermognetic compatibility       conductor ditterference         - due to conductor-earth surge according to IEC       2 kV / 5 kHz behavior criterion 2         61000-4-5       - due to conductor-conductor surge according to IEC         61000-4-5       - due to conductor-conductor surge according to IEC         61000-4-6       1 kV behavior criterion 2         61000-4-6       2 kV / 5 kHz behavior criterion 2         61000-4-6       1 kV behavior criterion 2         61000-4-6       80 MHz 1 GHz 10 V/m, behavior criterion 1         electrostatic discharge according to IEC 61000-4-3       80 MHz 1 GHz 10 V/m, behavior criterion 1         class A for industrial environment       Class A for industrial environment         CIBert A for industrial environment       Class A for industrial environment         clight-backup R fuse link for semiconductor protection at NH design usable       3NE1802-0         of back-up R fuse link for semiconductor protection at cylindrical design usable       3NE1802-0         of back-up R tyse link for se	afety related data					
60529       finger-safe, for vertical contact from the front         bient conditions       inger-safe, for vertical contact from the front         installation altitude at height above sea level maximum       1.000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +60 °C         • due to conductor-earth surge according to IEC       61000-4-4         • due to conductor-earth surge according to IEC       1 kV behavior criterion 2         61000-4-5       • due to conductor-earth surge according to IEC         61000-4-5       • due to conductor-settin surge according to IEC         61000-4-6       1 kV behavior criterion 2         61000-4-6       1 kV behavior criterion 2         61000-4-6       1 kV behavior criterion 1         1000-4-6       1 kV behavior criterion 2         1000-4-5       1 kV behavior criterion 1         1010-4-6       1 kV behavior criterion 2         10100-4-5       1 kV behavior criterion 2         10100-4-5       1 kV contact discharging, behavior criterion 1         1010-4-6       2 kV/ ofkst labersinging, behavior criterion 1         1010-4-16       10 kV contact discharging / 8 kV air discharging, behavior criterion 2         1011 range R fuse link for semiconductor protection at NH<	protection class IP on the front according to IEC	IP20				
mbient conditions         installation altitude at height above sea level maximum         ambient temperature         é during operation         é during storage         é during storage         é due to burst according to IEC 61000-4-4         é due to conductor-earth surge according to IEC 61000-4-5         é due to conductor-conductor surge according to IEC 61000-4-5         é due to conductor-conductor surge according to IEC 61000-4-5         é due to conductor-conductor surge according to IEC 61000-4-3         é due to conductor-ding to IEC 61000-4-3         é due to conductor-ding to IEC 61000-4-3         e due to isochraph (a terrefrence according to IEC 61000-4-3         e detrostatic discharge according to IEC 61000-4-3         e detrostatic discharge according to IEC 61000-4-3         e discharge according to IEC 61000-4-2         e discharge according to IEC 61000-4-3						
installation altitude at height above sea level maximum       1 000 m         ambient temperature       - 25 + 60 °C         • during storage       - 25 + 60 °C         • during storage       - 25 + 60 °C         • during storage       - 25 + 60 °C         • due to conductor-earth surge according to IEC       2 kV / 5 kHz behavior criterion 2         • due to conductor-earth surge according to IEC       1 kV behavior criterion 2         • due to conductor-earth surge according to IEC       1 kV behavior criterion 2         • due to bigh-frequency radiation according to IEC       1 kV behavior criterion 2         • due to conductor-conductor surge according to IEC 61000-4-3       80 MHz 1 GHz 10 V/m, behavior criterion 1         electrostatic discharge according to IEC 61000-4-2       2 kV contact discharging / 8 kV air discharging, behavior criterion 2         Conducted HF interference emissions according to IEC GISPR11       Class B for the domestic, business and commercial environment         CISPR11       Class B for the domestic, business and commercial environment         CISPR11       SIE1802-0         • of g S fuse for semiconductor protection at cylindrical design usable       SIE1802-0         • of b ack-up R fuse link for semiconductor protection at cylindrical design 14 × 51 mm usable       SINE8017-1         • of b ack-up R fuse link for semiconductor protection at cylindrical design 14 × 51 mm usabl	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front				
ambient temperature       -25 +60 °C         • during storage       -25 +60 °C         • during storage       -55 +60 °C         Itectromagnetic compatibility       2 kV / 5 kHz behavior criterion 2         • due to burst according to IEC 61000-4-4       2 kV / 5 kHz behavior criterion 2         • due to burst according to IEC 61000-4-5       2 kV / 5 kHz behavior criterion 2         • due to high-frequency radiation according to IEC 61000-4-3       140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1         • due to high-frequency radiation according to IEC 61000-4-3       80 MHz 1 GHz 10 V/m, behavior criterion 1         • due to high-frequency radiation according to IEC 61000-4-2       Class A for industrial environment         conducted HF Interference emission according to CISPR11       Class A for industrial environment         conducted HF Interference emission according to CISPR11       Class B for the domestic, business and commercial environments         conducted up R tuse link for semiconductor protection at NH design usable       3NE1802-0         • of back-up R fuse link for semiconductor protection at CISPR11       3NE1802-0         • of back-up R fuse link for semiconductor protection at NH design usable       3NC1450         • of back-up R fuse link for semiconductor protection at cylindrical design 14 × 51 mm usable       3NC1450         • of back-up R fuse link for semiconductor protection at cylindrical design 12	mbient conditions					
ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         tectromagnetic compatibility       2 kV / 5 kHz behavior criterion 2         • due to burst according to IEC 61000-4-4       2 kV / 5 kHz behavior criterion 2         • due to conductor-earth surge according to IEC 61000-4-5       2 kV / 5 kHz behavior criterion 2         • due to conductor-conductor surge according to IEC 61000-4-3       140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1         • due to high-frequency radiation according to IEC 61000-4-3       80 MHz 1 GHz 10 V/m, behavior criterion 1         • due to high-frequency radiation according to IEC 61000-4-2       Class A for industrial environment         CISPR11       Class A for industrial environment         CISPR11       Class A for industrial environment         manufacturer's article number       3NE1802-0         • of gS fuse for semiconductor protection at NH design usable       3NE18017-1         • of back-up R fuse link for semiconductor protection at cylindrical design 14 × 51 mm usable       3NC1450         • of back-up R fuse link for semiconductor protection at cylindrical design 14 × 51 mm usable       3NA6817         • of back-up R fuse link for semiconductor protection at cylindrical design 14 × 51 mm usable       3NA6817         • of back-up R fuse link for semiconductor protection at cy	installation altitude at height above sea level maximum	1 000 m				
<ul> <li>during storage</li> <li>-55 +80 °C</li> <li>lectromagnetic compatibility</li> <li>conducted interference</li> <li>i ue to burst according to IEC 61000-4.4</li> <li>i ue to conductor-earth surge according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to ICC 61000-4.5</li> <li>i ue to high-frequency radiation according to ICC 61000-4.5</li> <li>i ue to high-frequency radiation according to ICC 61000-4.5</li> <li>i up to high frequency radiation according to ICC 61000-4.4</li> <li>i up to high frequency range 0.15 80 MHz, behavior criterion 1</li> <li>i up to high frequency range 0.15 80 MHz, behavior criterion 1</li> <li>i up to high frequency radiation according to ICC 61000-4.2</li> <li>i up to high frequency radiation according to ICC 61000-4.3</li> <li>i up to high for semiconductor protection at NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable</li> <li>i to vylindrical design 14 x 51 mm usable</li> <li>i to vylindrical design 22 x 58 mm usable</li> <li>i to vylindrical design 22 x 58 mm usable</li> <li>i to vylindrical design 22 x 58 mm usable</li> <li>i to vylindrical design 22 x 58 mm usable</li> <li>i to vylindrical design 14 x 51 mm usable</li> <li>i to vylindrical design 22 x 58 mm usable</li> <li>i to vylindrical design 14 x</li></ul>	-					
<ul> <li>during storage</li> <li>-55 +80 °C</li> <li>lectromagnetic compatibility</li> <li>conducted interference</li> <li>i ue to burst according to IEC 61000-4.4</li> <li>i ue to conductor-earth surge according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to IEC 61000-4.5</li> <li>i ue to high-frequency radiation according to ICC 61000-4.5</li> <li>i ue to high-frequency radiation according to ICC 61000-4.5</li> <li>i ue to high-frequency radiation according to ICC 61000-4.5</li> <li>i up to high frequency radiation according to ICC 61000-4.4</li> <li>i up to high frequency range 0.15 80 MHz, behavior criterion 1</li> <li>i up to high frequency range 0.15 80 MHz, behavior criterion 1</li> <li>i up to high frequency radiation according to ICC 61000-4.2</li> <li>i up to high frequency radiation according to ICC 61000-4.3</li> <li>i up to high for semiconductor protection at NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable</li> <li>i to vylindrical design 14 x 51 mm usable</li> <li>i to vylindrical design 22 x 58 mm usable</li> <li>i to vylindrical design 22 x 58 mm usable</li> <li>i to vylindrical design 22 x 58 mm usable</li> <li>i to vylindrical design 22 x 58 mm usable</li> <li>i to vylindrical design 14 x 51 mm usable</li> <li>i to vylindrical design 22 x 58 mm usable</li> <li>i to vylindrical design 14 x</li></ul>	<ul> <li>during operation</li> </ul>	-25 +60 °C				
idectromagnetic compatibility         conducted interference         • due to conductor-earth surge according to IEC 61000-4-5         • due to conductor-conductor surge according to IEC 61000-4-5         • due to conductor-conductor surge according to IEC 61000-4-5         • due to conductor-conductor surge according to IEC 61000-4-5         • due to high-frequency radiation according to IEC 61000-4-6         field-based interference according to IEC 61000-4-3         electrostatic discharge according to IEC 61000-4-2         conducted HF interference emissions according to CISPR11         field-based interference emission according to CISPR11         field-based for semiconductor protection at cylindrical design usable         • of gS fuse for semiconductor protection at cylindrical design usable         • of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable         • of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable         • at cylindrical design 22 x 58 mm usable         • at cylindrical design 22 x 58 mm usable         • at cylindrical design 22 x 58 mm usable         • of NEOZED fuse usable <td></td> <td>-55 +80 °C</td>		-55 +80 °C				
conducted interference <ul> <li>due to burst according to IEC 61000-4-4</li> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> <li>due to bigh-frequency radiation according to IEC 61000-4-3</li> </ul> 1kV behavior criterion 2 <ul> <li>tkV behavior criterion 2</li> <li>tkV behavior criterion 1</li> <li>tkV contact discharging / 8 kV air discharging, behavior criterion 2</li> <li>Class A for industrial environment</li> <li>ClssrB1</li> <li>ClssrB1</li> <li>class B for the domestic, business and commercial environments</li> <li>SE1350</li> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable</li> <li>at cylindrical design 14 x 51 mm</li></ul>						
<ul> <li>due to burst according to IEC 61000-4-4</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> <li>due to high-frequency radiation according to IEC 61000-4-3</li> <li>due to high-frequency radiation according to IEC 61000-4-2</li> <li>conducted HF interference according to IEC 61000-4-2</li> <li>conducted HF interference emissions according to IEC 61000-4-2</li> <li>conducted HF interference emission according to IEC 61000-4-2</li> <li>of S fuse for semiconductor protection at NH design usable</li> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable</li> <li>at cylindrical design 22 x 58 mm usable</li> <li>bitorical design 22 x 58 mm usable</li> <li>bitoritorical</li></ul>						
• due to conductor-earth surge according to IEC 61000-4-5         2 kV behavior criterion 2           • due to conductor-conductor surge according to IEC 61000-4-5         1 kV behavior criterion 2           • due to bigh-frequency radiation according to IEC 61000-4-6         140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1           440 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1         40 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1           6100-4-6         80 MHz 1 GHz 10 V/m, behavior criterion 1         4 kV contact discharging / 8 kV air discharging, behavior criterion 2           conducted HF interference emission according to CISPR11         Class A for industrial environment         2 Class A for industrial environment           field-based interference emission according to CISPR11         Class B for the domestic, business and commercial environments           field-tound HF interference emission according to CISPR11         Class B for the domestic, business and commercial environments           field-tound HF interference emission according to CISPR11         SINE1802-0         SINE1802-0           of back-up R fuse link for semiconductor protection at cylindrical design usable         SINE18017-1         SINE18017-1           of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable         SINE2200         SINE111-1           of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable         SINE2200		2 kV / 5 kHz behavior criterion 2				
61000-4-5 <ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> <li>due to high-frequency radiation according to IEC 61000-4-3</li> <li>due to high-frequency radiation according to IEC 61000-4-3</li> </ul> 140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1 <ul> <li>44 vo chatch discharge according to IEC 61000-4-2</li> <li>conducted HF interference emissions according to IEC 61000-4-2</li> <li>conducted HF interference emission according to IEC CISPR11</li> <li>class A for industrial environment</li> <li>Class A for the domestic, business and commercial environments</li> </ul> of gS fuse for semiconductor protection at cylindrical design usable <ul> <li>of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable</li> <li>at cylindrical design 14 x 51 mm usable</li> <li>at cylindrical design 12 x 58 mm usable</li> <li>at cylindrical design 14 x 51 mm usable</li> <li>borb-2D fuse usable</li> <li>co f DIAZED fuse usable</li> <li>at cylindrical design 14 x 51 mm usable<td>-</td><td></td></li></ul>	-					
61000-4-5       • due to high-frequency radiation according to IEC         • due to high-frequency radiation according to IEC       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         • due to high-frequency radiation according to CISPR11       4 kV contact discharging / 8 kV air discharging, behavior criterion 2         Class B for the domestic, business and commercial environments       Class B for the domestic, business and commercial environments         CISPR11       Class B for the domestic, business and commercial environments         hort-circuit protection, design of the fuse link       3NE1802-0         • of gS fuse for semiconductor protection at Cylindrical design usable       5SE1350         • of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable       3NC1450         • of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable       3NL48317         • at cylindrical design 14 x 51 mm usable       3NV46817         • at cylindrical design 12 x 58 mm usable       3NV46817         • at cylindrical design 12 x 58 mm usable       3NV46817         • of DIAZED fuse usable       SSE4111; These fuses have a smaller rated current than the semiconductor relays         • of NEOZED fuse usable       SSE2335; These fuses have a smaller rated current than the semiconductor relays						
61000-4-6         field-based interference according to IEC 61000-4-3         electrostatic discharge according to IEC 61000-4-2         conducted HF interference emissions according to         CISPR11         field-bound HF interference emission according to         CISPR11         hort-circuit protection, design of the fuse link         manufacturer's article number         of gS fuse for semiconductor protection at NH design usable         of back-up R fuse link for semiconductor protection at cylindrical design 12 x 58 mm usable         of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable         e of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable         manufacturer's article number         e of DIAZED fuse usable         of DIAZED fuse usable         of DIAZED fuse usable         of NEOZED fuse usable		1 kV behavior criterion 2				
electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11       4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment         CISPR11       Class A for industrial environment         field-bound HF interference emission according to CISPR11       Class B for the domestic, business and commercial environments         hort-circuit protection, design of the fuse link manufacturer's article number       • of gS fuse for semiconductor protection at cylindrical design usable       3NE1802-0         • of back-up R fuse link for semiconductor protection at cylindrical design usable       • of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable       3NC1450         • of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable       3NC2200       3NC2200         • at NH design usable       3NW68177       3NW6117-1         • at cylindrical design 12 x 58 mm usable       3NW6117-1         • at cylindrical design 22 x 58 mm usable       3NW6117-1         • at cylindrical design 22 x 58 mm usable       3NW6117-1         • at cylindrical design 22 x 58 mm usable       3NW6117-1         • at cylindrical design 22 x 58 mm usable       3NW6217-1         • at cylindrical design 22 x 58 mm usable       SSE335; These fuses have a smaller rated current than the semiconductor relays         • of NEOZED fuse usable       SSE235; These fuses have		140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1				
conducted HF interference emissions according to CISPR11Class A for industrial environmentfield-bound HF interference emission according to CISPR11Class B for the domestic, business and commercial environmentshort-circuit protection, design of the fuse linkClass B for the domestic, business and commercial environmentshort-circuit protection, design of the fuse linkSNE1802-0manufacturer's article numberSSE1350• of gS fuse for semiconductor protection at cylindrical design usableSNE1802-0• of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usableSNE1017-1• of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usableSNE2200• at NH design usableSNA6817• at cylindrical design 22 x 58 mm usableSNA6817• at cylindrical design 22 x 58 mm usableSNM6217-1• at cylindrical design 22 x 58 mm usableSNA6817• at cylindrical design 22 x 58 mm usableSNM6217-1• at cylindrical design 22 x 58 mm usableSSE2335; These fuses have a smaller rated current than the semiconductor relays• of NEOZED fuse usableSSE2335; These fuses	field-based interference according to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, behavior criterion 1				
CISPR11 field-bound HF interference emission according to CISPR11       Class B for the domestic, business and commercial environments         hort-circuit protection, design of the fuse link       manufacturer's article number         • of gS fuse for semiconductor protection at NH design usable       3NE1802-0         • of full range R fuse link for semiconductor protection at cylindrical design usable       5SE1350         • of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable       3NE1802-0         • of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable       3NE18017-1         • of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable       3NC1450         • at NH design usable       3NA68817         • at cylindrical design 14 x 51 mm usable       3NW6117-1         • at cylindrical design 22 x 58 mm usable       3NW6217-1         manufacturer's article number       5SE4111; These fuses have a smaller rated current than the semiconductor relays         • of DIAZED fuse usable       5SE2335; These fuses have a smaller rated current than the semiconductor relays         • of NEOZED fuse usable       5SE2335; These fuses have a smaller rated current than the semiconductor relays	electrostatic discharge according to IEC 61000-4-2	4 kV contact discharging / 8 kV air discharging, behavior criterion 2				
field-bound HF interference emission according to CISPR11       Class B for the domestic, business and commercial environments         hort-circuit protection, design of the fuse link       manufacturer's article number       of gS fuse for semiconductor protection at NH design usable       3NE1802-0         of back-up R fuse link for semiconductor protection at cylindrical design usable       SSE1350       SNE18017-1         of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable       3NC1450       SNE2200         of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable       3NC1450       SNE2200         at NH design usable       3NA68817       SNE6817         of DiAZED fuse usable       SNM6817-1       SNE6217-1         manufacturer's article number       SNE6217-1       SNE6217-1         of DIAZED fuse usable       SNE6217-1       SNE6217-1         manufacturer's article number       SSE1350       SSE1351         of DIAZED fuse usable       SSE2335; These fuses have a smaller rated current than the semiconductor relays       SSE2335; These fuses have a smaller rated current than the semiconductor relays         of NEOZED fuse usable       SSE2335; These fuses have a smaller rated current than the semiconductor relays		Class A for industrial environment				
whort-circuit protection, design of the fuse link         manufacturer's article number         • of gS fuse for semiconductor protection at NH         design usable         • of full range R fuse link for semiconductor protection at cylindrical design usable         • of back-up R fuse link for semiconductor protection at NH design usable         • of back-up R fuse link for semiconductor protection at NH design usable         • of back-up R fuse link for semiconductor protection at vylindrical design 14 x 51 mm usable         • of back-up R fuse link for semiconductor protection at cylindrical design 12 x 58 mm usable         manufacturer's article number of the gG fuse         • at cylindrical design 14 x 51 mm usable         • at cylindrical design 14 x 51 mm usable         • at cylindrical design 14 x 51 mm usable         • at cylindrical design 22 x 58 mm usable         • at cylindrical design 22 x 58 mm usable         • at cylindrical design 14 x 51 mm usable         • at cylindrical design 22 x 58 mm usable         • at cylindrical design 22 x 58 mm usable         • of DIAZED fuse usable         • of NEOZED fuse usable	field-bound HF interference emission according to	Class B for the domestic, business and commercial environments				
manufacturer's article number <ul> <li>of gS fuse for semiconductor protection at NH</li> <li>design usable</li> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> <li>of back-up R fuse link for semiconductor protection at 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> <li>of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 12 x 58 mm usable</li> <li>at cylindrical design 12 x 51 mm usable</li> <li>at cylindrical design 12 x 58 mm usable</li> <li>at cylindrical design 22 x 58 mm usable</li> <li>at cylindrical design 22 x 58 mm usable</li> <li>of DIAZED fuse usable</li> <li>of NEOZED fuse usable</li> <li>of NEOZED fuse usable</li> <li>SE2335; These fuses have a smaller rated current than the semiconductor relays</li> <li>certificates/ approvals</li> </ul>	-					
• of gS fuse for semiconductor protection at NH       3NE1802-0         • of full range R fuse link for semiconductor protection at cylindrical design usable       5SE1350         • of back-up R fuse link for semiconductor protection at NH design usable       5NE8017-1         • of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable       3NC1450         • of back-up R fuse link for semiconductor protection at cylindrical design 12 x 58 mm usable       3NC2200         • at cylindrical design 14 x 51 mm usable       3NA68817         • at cylindrical design 14 x 51 mm usable       3NW6117-1         • at cylindrical design 14 x 51 mm usable       3NW6117-1         • at cylindrical design 22 x 58 mm usable       3NW6217-1         manufacturer's article number       SSE1111; These fuses have a smaller rated current than the semiconductor relays         • of DIAZED fuse usable       5SE2335; These fuses have a smaller rated current than the semiconductor relays         • of NEOZED fuse usable       5SE2335; These fuses have a smaller rated current than the semiconductor relays						
<ul> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> <li>of back-up R fuse link for semiconductor protection at 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> <li>at NH design usable</li> <li>at cylindrical design 14 x 51 mm usable</li> <li>at cylindrical design 14 x 51 mm usable</li> <li>at cylindrical design 22 x 58 mm usable</li> <li>at cylindrical design 14 x 51 mm usable</li> <li>at cylindrical design 14 x 51 mm usable</li> <li>at cylindrical design 14 x 51 mm usable</li> <li>at cylindrical design 22 x 58 mm usable</li> <li>bit M design 22 x 58 mm usable</li> <li>bit M design 22 x 58 mm usable</li> <li>bit M design 22 x 58 mm usable</li> <li>cof DIAZED fuse usable</li> <li>of NEOZED fuse usable</li> <li>bit M design 22 x 58</li> <li>bit M design 22 x 58 mm usable</li> <li>cof NEOZED fuse usable</li> <li>cof N</li></ul>	• of gS fuse for semiconductor protection at NH	<u>3NE1802-0</u>				
• of back-up R fuse link for semiconductor protection at NH design usable       3NE8017-1         • of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable       3NC1450         • of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable       3NC2200         manufacturer's article number of the gG fuse       3NA6817         • at NH design usable       3NW6117-1         • at cylindrical design 22 x 58 mm usable       3NW6217-1         manufacturer's article number       5SB4111; These fuses have a smaller rated current than the semiconductor relays         • of NEOZED fuse usable       5SE2335; These fuses have a smaller rated current than the semiconductor relays         • of NEOZED fuse usable       5SE2335; These fuses have a smaller rated current than the semiconductor relays	• of full range R fuse link for semiconductor protection	<u>5SE1350</u>				
<ul> <li>of back-up R fuse link for semiconductor protection at 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> <li>manufacturer's article number of the gG fuse</li> <li>at cylindrical design 14 x 51 mm usable</li> <li>at cylindrical design 22 x 58 mm usable</li> <li>bit cylindrical design 22 x 58 mm usable</li></ul>	of back-up R fuse link for semiconductor protection	<u>3NE8017-1</u>				
<ul> <li>of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable</li> <li>manufacturer's article number of the gG fuse</li> <li>at NH design usable</li> <li>at cylindrical design 14 x 51 mm usable</li> <li>at cylindrical design 22 x 58 mm usable</li> <li>bit cylin</li></ul>	<ul> <li>of back-up R fuse link for semiconductor protection</li> </ul>	<u>3NC1450</u>				
• at NH design usable       3NA6817         • at cylindrical design 14 x 51 mm usable       3NW6117-1         • at cylindrical design 22 x 58 mm usable       3NW6217-1         manufacturer's article number       3SB4111; These fuses have a smaller rated current than the semiconductor relays         • of DIAZED fuse usable       5SE2335; These fuses have a smaller rated current than the semiconductor relays         • of NEOZED fuse usable       5SE2335; These fuses have a smaller rated current than the semiconductor relays	<ul> <li>of back-up R fuse link for semiconductor protection</li> </ul>	<u>3NC2200</u>				
• at cylindrical design 14 x 51 mm usable         3NW6117-1           • at cylindrical design 22 x 58 mm usable         3NW6217-1           • at cylindrical design 22 x 58 mm usable         3NW6217-1           manufacturer's article number         5SB4111; These fuses have a smaller rated current than the semiconductor relays           • of NEOZED fuse usable         5SE2335; These fuses have a smaller rated current than the semiconductor relays           ertificates/ approvals         ertificates/ approvals	manufacturer's article number of the gG fuse					
• at cylindrical design 22 x 58 mm usable         3NW6217-1           manufacturer's article number         5SB4111; These fuses have a smaller rated current than the semiconductor relays           • of NEOZED fuse usable         5SE2335; These fuses have a smaller rated current than the semiconductor relays           ertificates/ approvals         ertificates/ approvals	<ul> <li>at NH design usable</li> </ul>	<u>3NA6817</u>				
manufacturer's article number       • of DIAZED fuse usable       5SB4111; These fuses have a smaller rated current than the semiconductor relays         • of NEOZED fuse usable       5SE2335; These fuses have a smaller rated current than the semiconductor relays         • ertificates/ approvals	<ul> <li>at cylindrical design 14 x 51 mm usable</li> </ul>	<u>3NW6117-1</u>				
of DIAZED fuse usable     of NEOZED fuse usable     of NEOZED fuse usable     of NEOZED fuse usable <u>5SE2335</u> ; These fuses have a smaller rated current than the     semiconductor relays     semiconductor relays	<ul> <li>at cylindrical design 22 x 58 mm usable</li> </ul>	<u>3NW6217-1</u>				
of NEOZED fuse usable     of NEOZED fuse usable <u>5SE2335</u> ; These fuses have a smaller rated current than the     semiconductor relays ertificates/ approvals						
of NEOZED fuse usable <u>5SE2335;</u> These fuses have a smaller rated current than the semiconductor relays     retificates/ approvals	manufacturer's article number					
certificates/ approvals						
Certificates/ approvals	• of DIAZED fuse usable	semiconductor relays				
Declaration of	• of DIAZED fuse usable	semiconductor relays <u>5SE2335;</u> These fuses have a smaller rated current than the				
General Product Approval EMC Declaration of Conformity	<ul><li> of DIAZED fuse usable</li><li> of NEOZED fuse usable</li></ul>	semiconductor relays <u>5SE2335;</u> These fuses have a smaller rated current than the				

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Declaration of Conformity	Test Certificates		other	Railway
C C EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	<u>Confirmation</u>	Vibration and Shock

**Further information** 

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

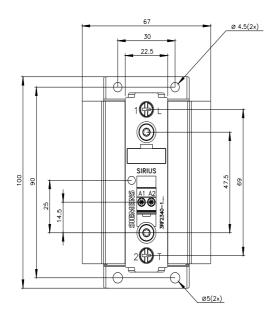
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2340-1BA22

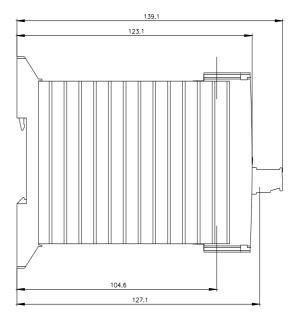
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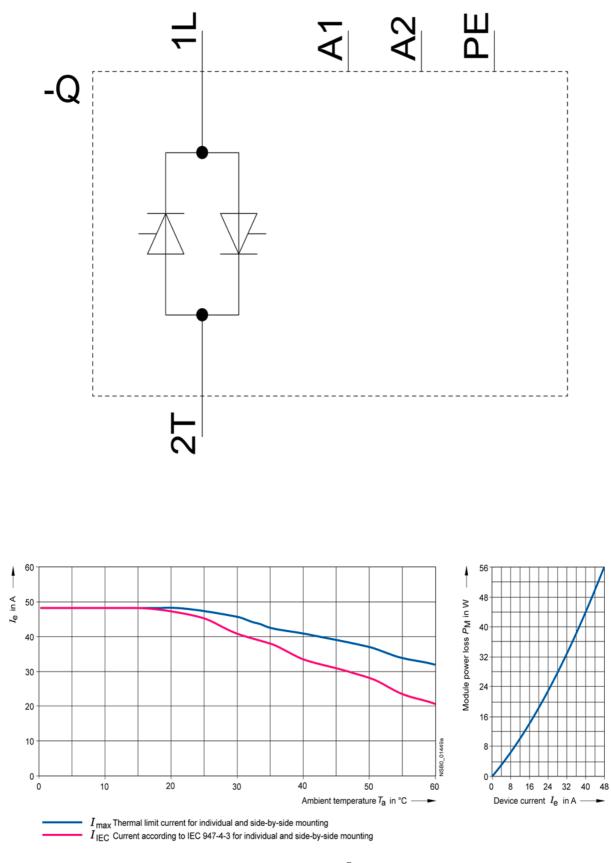
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2340-1BA22

- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
- https://support.industry.siemens.com/cs/ww/en/ps/3RF2340-1BA22

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2340-1BA22&lang=en







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