## SIEMENS

## Data sheet

## 3RF2330-1AA02

	Solid-state contactor 1-phase 3RF2 AC 51 / 30 A / 40 °C 24-230 V / 24 V DC screw terminal
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>	3RF2900-3PA88
<ul> <li>3 of the accessories that can be ordered</li> </ul>	3RE2900-0EA18
<ul> <li>4 of the accessories that can be ordered</li> </ul>	3RF2950-0GA13
<ul> <li>5 of the accessories that can be ordered</li> </ul>	3RF2920-0FA08
product designation	
<ul> <li>1 of the accessories that can be ordered</li> </ul>	terminal cover
<ul> <li>3 of the accessories that can be ordered</li> </ul>	converter
<ul> <li>_4 of the accessories that can be ordered</li> </ul>	load monitoring
<ul> <li>_5 of the accessories that can be ordered</li> </ul>	load monitoring, basis
General technical data	
product function	zero-point switching
power loss [W] for rated value of the current	
at AC in hot operating state	33 W
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> </ul>	33 W 33 W
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> </ul>	33 W 33 W 0.4 W
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> </ul>	33 W 33 W 0.4 W 600 V
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> </ul>	33 W 33 W 0.4 W 600 V 3
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> <li>surge voltage resistance of main circuit rated value</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC 6 kV
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> <li>surge voltage resistance of main circuit rated value</li> <li>shock resistance according to IEC 60068-2-27</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC 6 kV 15g / 11 ms
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> <li>surge voltage resistance of main circuit rated value</li> <li>shock resistance according to IEC 60068-2-27</li> <li>vibration resistance according to IEC 60068-2-6</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC 6 kV 15g / 11 ms 2g
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> <li>surge voltage resistance of main circuit rated value</li> <li>shock resistance according to IEC 60068-2-27</li> <li>vibration resistance according to IEC 60068-2-6</li> <li>reference code according to IEC 81346-2</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC 6 kV 15g / 11 ms 2g Q
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> <li>surge voltage resistance of main circuit rated value</li> <li>shock resistance according to IEC 60068-2-27</li> <li>vibration resistance according to IEC 60068-2-6</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC 6 kV 15g / 11 ms 2g Q Q 05/28/2009
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> <li>surge voltage resistance of main circuit rated value</li> <li>shock resistance according to IEC 60068-2-27</li> <li>vibration resistance according to IEC 60068-2-6</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC 6 kV 15g / 11 ms 2g Q Q 05/28/2009
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> <li>surge voltage resistance of main circuit rated value</li> <li>shock resistance according to IEC 60068-2-27</li> <li>vibration resistance according to IEC 60068-2-6</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>Main circuit</li> <li>number of poles for main current circuit</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC 6 kV 15g / 11 ms 2g Q 05/28/2009 1
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> <li>surge voltage resistance of main circuit rated value</li> <li>shock resistance according to IEC 60068-2-27</li> <li>vibration resistance according to IEC 60068-2-6</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>Main circuit</li> <li>number of poles for main current circuit</li> <li>number of NO contacts for main contacts</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC 6 kV 15g / 11 ms 2g Q 05/28/2009 1 1
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> <li>surge voltage resistance of main circuit rated value</li> <li>shock resistance according to IEC 60068-2-27</li> <li>vibration resistance according to IEC 60068-2-6</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>Main circuit</li> <li>number of poles for main current circuit</li> <li>number of NO contacts for main contacts</li> <li>number of NC contacts for main contacts</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC 6 kV 15g / 11 ms 2g Q 05/28/2009 1 1 0
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> <li>surge voltage resistance of main circuit rated value</li> <li>shock resistance according to IEC 60068-2-27</li> <li>vibration resistance according to IEC 60068-2-6</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>Main circuit</li> <li>number of poles for main current circuit</li> <li>number of NC contacts for main contacts</li> <li>operating voltage at AC</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC 6 kV 15g / 11 ms 2g Q 05/28/2009 1 1 0
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> <li>surge voltage resistance of main circuit rated value</li> <li>shock resistance according to IEC 60068-2-27</li> <li>vibration resistance according to IEC 60068-2-66</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>Main circuit</li> <li>number of poles for main current circuit</li> <li>number of NO contacts for main contacts</li> <li>operating voltage at AC</li> <li>at 50 Hz rated value</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC 6 kV 15g / 11 ms 2g Q 05/28/2009 1 1 0 24 230 V
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> <li>surge voltage resistance of main circuit rated value</li> <li>shock resistance according to IEC 60068-2-27</li> <li>vibration resistance according to IEC 60068-2-6</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>Main circuit</li> <li>number of poles for main current circuit</li> <li>number of NC contacts for main contacts</li> <li>operating voltage at AC</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC 6 kV 15g / 11 ms 2g Q 05/28/2009 24 230 V 24 230 V
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> <li>surge voltage resistance of main circuit rated value</li> <li>shock resistance according to IEC 60068-2-27</li> <li>vibration resistance according to IEC 60068-2-6</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>Main circuit</li> <li>number of poles for main current circuit</li> <li>number of NO contacts for main contacts</li> <li>operating voltage at AC</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating frequency rated value</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC 6 kV 15g / 11 ms 2g Q 05/28/2009 24 230 V 24 230 V 24 230 V 50 60 Hz
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> <li>surge voltage resistance of main circuit rated value</li> <li>shock resistance according to IEC 60068-2-27</li> <li>vibration resistance according to IEC 60068-2-6</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>Main circuit</li> <li>number of poles for main current circuit</li> <li>number of NO contacts for main contacts</li> <li>operating voltage at AC</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range relative to the operating voltage at AC</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC 6 kV 15g / 11 ms 2g Q 05/28/2009 24 230 V 24 230 V 24 230 V 50 60 Hz
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> <li>surge voltage resistance of main circuit rated value</li> <li>shock resistance according to IEC 60068-2-27</li> <li>vibration resistance according to IEC 60068-2-6</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>Main circuit</li> <li>number of poles for main current circuit</li> <li>number of NO contacts for main contacts</li> <li>operating voltage at AC</li> <li>at 50 Hz rated value</li> <li>operating frequency rated value</li> <li>operating range relative to the operating voltage at AC</li> <li>at 50 Hz</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC 6 kV 15g / 11 ms 2g Q 05/28/2009 24 230 V 24 230 V 24 230 V 20 253 V
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> <li>surge voltage resistance of main circuit rated value</li> <li>shock resistance according to IEC 60068-2-27</li> <li>vibration resistance according to IEC 60068-2-6</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> </ul> Main circuit number of poles for main current circuit <ul> <li>number of NO contacts for main contacts</li> <li>number of NC contacts for main contacts</li> <li>operating voltage at AC</li> <li>at 50 Hz rated value</li> <li>operating frequency rated value</li> <li>operating range relative to the operating voltage at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC 6 kV 15g / 11 ms 2g Q 05/28/2009 24 230 V 24 230 V 24 230 V 20 253 V 20 253 V
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>type of voltage of the control supply voltage</li> <li>surge voltage resistance of main circuit rated value</li> <li>shock resistance according to IEC 60068-2-27</li> <li>vibration resistance according to IEC 60068-2-6</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> </ul> Main circuit number of poles for main current circuit <ul> <li>number of NO contacts for main contacts</li> <li>number of NC contacts for main contacts</li> <li>operating voltage at AC</li> <li>at 50 Hz rated value</li> <li>operating range relative to the operating voltage at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>operational current</li> </ul>	33 W 33 W 0.4 W 600 V 3 DC 6 kV 15g / 11 ms 2g Q 05/28/2009 24 230 V 24 230 V 24 230 V 20 253 V 20 253 V

• at AC-51 according to IEC 60947-4-3	22 Δ			
according to UL 508 rated value	27 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	800 V			
reverse current of the thyristor	10 mA			
derating temperature	40 °C			
surge current resistance rated value	Λ 009			
	1 000 A2 -			
12t value maximum	1 800 A-s			
Control circuit/ Control				
type of voltage of the control supply voltage	DC			
control supply voltage 1				
at DC rated value	30 V			
e at DC	15 24 V			
	15 2 <del>4</del> V			
control supply voltage	4-14			
<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 <sup>-</sup> additionally max one half-wave			
	1 ms; additionally max, one half wave			
	This, additionally max. one hall-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				
fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm			
• side-by-side mounting	Yes			
design of the thread of the screw for securing the	M4			
design of the thread of the screw for securing the equipment	M4			
design of the thread of the screw for securing the equipment height	M4 95 mm			
design of the thread of the screw for securing the equipment height width	M4 95 mm 45 mm			
design of the thread of the screw for securing the equipment height width depth	M4 95 mm 45 mm 135.5 mm			
design of the thread of the screw for securing the equipment height width depth Connections/ Terminals	M4 95 mm 45 mm 135.5 mm			
design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection	M4 95 mm 45 mm 135.5 mm			
design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection	M4 95 mm 45 mm 135.5 mm			
design of the thread of the screw for securing the equipment height width depth Connections/ Terminals type of electrical connection • for main current circuit	M4 95 mm 45 mm 135.5 mm screw-type terminals			
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	M4 95 mm 45 mm 135.5 mm screw-type terminals screw-type terminals			
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	M4 95 mm 45 mm 135.5 mm screw-type terminals screw-type terminals			
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	M4 95 mm 45 mm 135.5 mm screw-type terminals screw-type terminals			
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	M4 95 mm 45 mm 135.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> )			
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	M4 95 mm 45 mm 135.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>			
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	M4 95 mm 45 mm 135.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10)			
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	M4 95 mm 45 mm 135.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10)			
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	M4 95 mm 45 mm 135.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10)			
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 • solid or stranded	M4 95 mm 45 mm 135.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10) 1.5 6 mm <sup>2</sup>			
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 • solid or stranded • finely stranded with core end processing	M4 95 mm 45 mm 135.5 mm screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10) 1.5 6 mm <sup>2</sup> 1. 10 mm <sup>2</sup>			
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 • solid or stranded • finely stranded with core end processing type of connectable conductor cross-section for main contacts	M4 95 mm 45 mm 135.5 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10) 1.5 6 mm <sup>2</sup> 1 10 mm <sup>2</sup>			
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 • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections	M4 95 mm 45 mm 135.5 mm screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10) 1.5 6 mm <sup>2</sup> 1 10 mm <sup>2</sup>			
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 • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for main contacts	M4 95 mm 45 mm 135.5 mm screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10) 1.5 6 mm <sup>2</sup> 1 10 mm <sup>2</sup>			
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 • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid	M4 95 mm 45 mm 135.5 mm 35.5 mm screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10) 1.5 6 mm <sup>2</sup> 1 10 mm <sup>2</sup> 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> )			
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 • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing	M4 95 mm 45 mm 135.5 mm 35.5 mm screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10) 1.5 6 mm <sup>2</sup> 1 10 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> )			
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 • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing — solid — finely stranded with core end processing — finely stranded with core end processing	M4 95 mm 45 mm 135.5 mm 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) $1.5 6 mm^2$ $1 10 mm^2$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$			
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 • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded without core end processing	M4 95 mm 45 mm 135.5 mm 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) $1.5 6 mm^2$ $1 10 mm^2$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ 1x (AWG 20 12)			
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 • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross	M4 95 mm 45 mm 135.5 mm 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) $1.5 6 mm^2$ $1 10 mm^2$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ 1x (AWG 20 12)			
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 • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing — solid — finely stranded with core end processing — solid — finely stranded with core end processing — at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts	M4 95 mm 45 mm 135.5 mm 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) $1.5 6 mm^2$ $1 10 mm^2$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ 1x (AWG 20 12) 10 14			
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 • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts tightening torque	M4 95 mm 45 mm 135.5 mm 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) $1.5 6 mm^2$ $1 10 mm^2$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ 1x (AWG 20 12) 10 14			
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 • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts tightening torque • for main contacts with screw-type terminals	M4 95 mm 45 mm 135.5 mm screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10) 1.5 6 mm <sup>2</sup> 1 10 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 (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (AWG 20 12) 10 14 2 2.5 N·m			
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 • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type	M4 95 mm 45 mm 135.5 mm screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10) 1.5 6 mm <sup>2</sup> 1 10 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 (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (AWG 20 12) 10 14 2 2.5 N·m 0.5 0.6 N·m			
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 • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals	M4 95 mm 45 mm 135.5 mm 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) $1.5 6 mm^2$ $1 10 mm^2$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ 1x (AWG 20 12) 10 14 2 2.5 N·m 0.5 0.6 N·m			
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 • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing • at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals	M4 95 mm 45 mm 135.5 mm screw-type terminals $2x (1.5 2.5 mm^2), 2x (2.5 6 mm^2)$ $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), 1x 10 mm^2$ $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), 1x 10 mm^2$ 2x (14 10) $1.5 6 mm^2$ $1 10 mm^2$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ 1x (AWG 20 12) 10 14 $2 2.5 N \cdot m$ $0.5 0.6 N \cdot m$			
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 • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals	M4 95 mm 45 mm 135.5 mm screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10) 1.5 6 mm <sup>2</sup> 1 10 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 (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) 10 14 2 2.5 N·m 0.5 0.6 N·m 18 22 lbf in			

<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	4.5 5.3 lbf·in				
terminals					
design of the thread of the connection screw	N44				
IOF Main contacts     of the envillence and control contacts	M4 M3				
• of the auxiliary and control contacts	IVIS				
• for main contacts	7 mm				
for auxiliary and control contacts	7 mm				
Safety related data					
protection class IP on the front according to IEC	1020				
60529	IF 20				
touch protection on the front according to IEC 60529	finger-safe, for vertical conta	act from the front			
Ambient conditions					
installation altitude at height above sea level maximum	1 000 m				
ambient temperature					
<ul> <li>during operation</li> </ul>	-25 +60 °C				
during storage	-55 +80 °C				
Electromagnetic compatibility					
conducted interference					
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV / 5 kHz behavior criterio	on 2			
<ul> <li>due to conductor-earth surge according to IEC</li> <li>61000-4-5</li> </ul>	2 kV behavior criterion 2	2 kV behavior criterion 2			
<ul> <li>due to conductor-conductor surge according to IEC</li> </ul>	1 kV behavior criterion 2	1 kV behavior criterion 2			
<ul><li>61000-4-5</li><li>due to high-frequency radiation according to IEC</li></ul>	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1				
61000-4-6					
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 alr discharging, ben	avior chilehon 2		
CISPR11	Class A for industrial environ	intent			
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					
Short-circuit protection, design of the fuse link manufacturer's article number					
Short-circuit protection, design of the fuse link manufacturer's article number • of gS fuse for semiconductor protection at NH design usable	<u>3NE1803-0</u>				
<ul> <li>Short-circuit protection, design of the fuse link</li> <li>manufacturer's article number</li> <li>of gS fuse for semiconductor protection at NH design usable</li> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> </ul>	<u>3NE1803-0</u> <u>5SE1335</u>				
<ul> <li>Short-circuit protection, design of the fuse link</li> <li>manufacturer's article number</li> <li>of gS fuse for semiconductor protection at NH 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 NH design usable</li> </ul>	<u>3NE1803-0</u> <u>5SE1335</u> <u>3NE8003-1</u>				
<ul> <li>Short-circuit protection, design of the fuse link</li> <li>manufacturer's article number</li> <li>of gS fuse for semiconductor protection at NH 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 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 10 x 38 mm usable</li> </ul>	<u>3NE1803-0</u> <u>5SE1335</u> <u>3NE8003-1</u> <u>3NC1032</u>				
<ul> <li>Short-circuit protection, design of the fuse link</li> <li>manufacturer's article number <ul> <li>of gS fuse for semiconductor protection at NH 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 NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable</li> </ul> </li> </ul>	3NE1803-0 5SE1335 3NE8003-1 3NC1032 3NC1450				
<ul> <li>Short-circuit protection, design of the fuse link</li> <li>manufacturer's article number <ul> <li>of gS fuse for semiconductor protection at NH 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 NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 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> </ul> </li> </ul>	3NE1803-0 5SE1335 3NE8003-1 3NC1032 3NC1450 3NC2263				
<ul> <li>Short-circuit protection, design of the fuse link</li> <li>manufacturer's article number <ul> <li>of gS fuse for semiconductor protection at NH 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 NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 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 22 x 58 mm usable</li> </ul> </li> <li>manufacturer's article number of the gG fuse <ul> <li>at NH design usable</li> </ul> </li> </ul>	3NE1803-0 5SE1335 3NE8003-1 3NC1032 3NC1032 3NC1450 3NC2263 3NA6810; These fuses have	e a smaller rated current	t than the		
<ul> <li>Short-circuit protection, design of the fuse link</li> <li>manufacturer's article number <ul> <li>of gS fuse for semiconductor protection at NH 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 NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 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 22 x 58 mm usable</li> <li>manufacturer's article number of the gG fuse</li> <li>at NH design usable</li> </ul> </li> </ul>	3NE1803-0 5SE1335 3NE8003-1 3NC1032 3NC1450 3NC2263 3NA6810; These fuses have semiconductor relays 3NM6107 1	a smaller rated current	t than the		
<ul> <li>Short-circuit protection, design of the fuse link</li> <li>manufacturer's article number <ul> <li>of gS fuse for semiconductor protection at NH 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 NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 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 22 x 58 mm usable</li> </ul> </li> <li>at cylindrical design 14 x 51 mm usable</li> <li>at cylindrical design 14 x 51 mm usable</li> </ul>	3NE1803-0 5SE1335 3NE8003-1 3NC1032 3NC1450 3NC2263 3NC2263 3NA6810; These fuses have semiconductor relays 3NW6107-1 3NW6207-1	a smaller rated current	t than the		
<ul> <li>Short-circuit protection, design of the fuse link</li> <li>manufacturer's article number <ul> <li>of gS fuse for semiconductor protection at NH 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 NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 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 22 x 58 mm usable</li> </ul> </li> <li>manufacturer's article number of the gG fuse <ul> <li>at cylindrical design 14 x 51 mm usable</li> <li>at cylindrical design 14 x 51 mm usable</li> </ul> </li> </ul>	3NE1803-0 5SE1335 3NE8003-1 3NC1032 3NC1450 3NC2263 3NA6810; These fuses have semiconductor relays 3NW6107-1 3NW6207-1	e a smaller rated current	t than the		
<ul> <li>Short-circuit protection, design of the fuse link</li> <li>manufacturer's article number <ul> <li>of gS fuse for semiconductor protection at NH 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 NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 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 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> </ul> </li> </ul>	3NE1803-0 5SE1335 3NE8003-1 3NC1032 3NC1450 3NC2263 3NA6810; These fuses have semiconductor relays 3NW6107-1 3NW6207-1 5SB2711; These fuses have	a smaller rated current	t than the		
<ul> <li>Short-circuit protection, design of the fuse link</li> <li>manufacturer's article number <ul> <li>of gS fuse for semiconductor protection at NH 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 NH design usable</li> <li>of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 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 22 x 58 mm usable</li> </ul> </li> <li>at cylindrical design 14 x 51 mm usable</li> <li>at cylindrical design 14 x 51 mm usable</li> <li>of bacturer's article number of the gG fuse</li> <li>at cylindrical design 22 x 58 mm usable</li> </ul>	3NE1803-0 5SE1335 3NE8003-1 3NC1032 3NC1032 3NC1450 3NC2263 3NA6810; These fuses have semiconductor relays 3NW6107-1 3NW6207-1 5SB2711; These fuses have semiconductor relays	e a smaller rated current	t than the		
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Declaration of Conformity	Test Certificates		other	Railway
CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	Confirmation	Vibration and Shock

## Further information

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

https://www.siemens.com/ic10

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