## SIEMENS

## Data sheet

## 3RF2020-1AA22

	Semiconductor relay, 1-phase 3RF2 Width 45 mm, 20 A 24-230 V / 110- 230 V AC screw terminal
product brand name	SIRIUS
product designation	solid-state relay
design of the product	single-phase
product type designation	3RF20
General technical data	
product function	zero-point switching
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	28.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	28.6 W
<ul> <li>without load current share typical</li> </ul>	3.5 W
insulation voltage rated value	600 V
type of voltage of the control supply voltage	AC
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	
at 50 Hz rated value	24 230 V
• at 60 Hz rated value	24 230 V
operating frequency rated value	50 60 Hz
relative symmetrical tolerance of the operating frequency	10 %
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>	20 A
<ul> <li>according to UL 508 rated value</li> </ul>	20 A
ampacity maximum	20 A
operational current minimum	100 mA
rate of voltage rise at the thyristor for main contacts maximum permissible	500 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	200 A
l2t value maximum	200 A <sup>2</sup> ·s

type of voltage of the control supply voltage         AC           entrol supply voltage if AAC         11020 V           entrol supply voltage if AAC         11020 V           entrol supply voltage if AAC         11020 V           entrol supply voltage if AC         01/2           entro	Control circuit/ Control	
control supply voltage 1 at AC         a rts 0 hz		AC
<ul> <li>at 80 hz</li> <li>a 7 hzte value</li> <li>60 hz</li> <li>at 80 hz</li> <li>bit 80 hz</li> <li>at 80 hz</li> <li>at 80 hz</li> <li>bit 80 hz</li> <li>at 80 hz</li> <li>bit 80 hz</li> <li>at 80 hz</li> <li>bit 80 hz</li> <li>bit</li></ul>		
control supply voltage frequency     50 Hz       • 1 rated value     50 Hz       • at 00 Hz blascak value for signal-0> recognition     40 V       • at 00 Hz blascak value for signal-0> recognition     40 V       • at 00 Hz blascak value for signal-0> recognition     40 V       • at 00 Hz blascak value for signal-0> recognition     40 V       • at 00 Hz blascak value for signal-0> recognition     40 V       • at 00 Hz blascak value for signal-0> recognition     40 V       • at 0AC inflat value for signal-0> recognition     40 V       • at AC inflat value for signal-0> recognition     40 V       • at AC inflat value for signal-0> recognition     51 Hz       • control current at minimum control supply voltage     51 Hz       • at AC collaris for auxiliary contracts     0       • Dri-delay time     40 ms; additionally max: one half-wave <b>Auxtiliny circuit</b> mmber of NC contacts for auxiliary contracts     0       • attab-by-side mounting     screw boing     screw boing       • stab-by-side mounting     Yes     Screw boing       • stab-by-side mounting     Yes     Screw boing       • for main current circuit     screw boing     Screw boing       • for main current circuit     screw-type terminals       • for main current circuit     screw-type terminals       • for main current circuit     screw-ty		110 230 V
<ul> <li> <ul> <li></li></ul></li></ul>	• at 60 Hz	110 230 V
• 2 rated value     60 Hz       control supply voltage     40 V       • at 60 Hz full-scale value for signal-CP-recognition     40 V       • at 60 Hz full-scale value for signal-CP-recognition     40 V       • at AC initial value for signal-CP- detection     90 V       • gymmetrical line frequency tolerance     51 Hz       • at AC initial value for signal-CP- detection     90 V       • at AC initial value for signal-CP- detection     90 V       • at AC initial value     0 ms; additionally max. one half-wave       • at AC initial value for signal-CP- detection     90 V       • at AC initial value for signal-CP- detection     90 V       • at AC initial value for signal-CP- detection     90 V       • at AC initial value for signal-CP- detection     90 Ms; additionally max. one half-wave       • at AC initial value for signal-CP- detection     15 mA       • at AC initial value for signal-CP- detection     0       • at AC initial value for signal-CP- detection     0       • at AC initial value for signal-CP- detection     0       • Drest at AC initial value for signal-CP- detection     0       • at AC initial value for signal-CP- detection     0       • at AC initial value for signal-CP- detection     0       • at AC initial value for signal-CP- detection     0       • at AC initial value for signal-CP- detection     0       • at	control supply voltage frequency	
control supply voltage at AC       40 V         • at 50 Hz full-scale value for signal <d> recognition       40 V         • at AC       90 V         • at AC intel value for signal <d> detection       90 V         • at AC intel value for signal <d> detection       90 V         • at AC intel value       5 Hz         • at AC intel value       2 mA         • Control current at AC rated value       2 mA         • Oth-dety time       40 ms; additionally max. one half-wave         • At AC index value       0         • At AC index value       0         • Oth-dety time       0         • at AC index value       0         • at AC index valu</d></d></d>		50 Hz
• at 60 Hz full-scale value for signal-0- recognition • at 60 Hz full-scale value for signal-1-0 detection • at AC initial value for signal -1-0 detection • at AC initial value for signal -1-0 detection • at AC initial value for signal -1-0 detection • at AC roled value       90 V         • at AC initial value for signal -1-0 detection • at AC roled value       90 V         • at at at at at at at a tore at role value       90 V         • at at at at at at a tore at role value       90 V         • at at at at at at at at a tore at role value       90 V         • at	• 2 rated value	60 Hz
• at 80 Hz full-scale value for signal <1> detection       40 V         control supply voltage       • at AC initial value for signal <1> detection       90 V         symmetrical line frequency toterance       5 Hz         • at AC       2 mA         • at AC       2 mA         • ottal current at AC rated value       2 mA         OR-delay time       40 ms; additionally max, one half-wave         OPF-delay time       40 ms; additionally max, one half-wave         Availary cincuit       0         number of NC contacts for auxillary contacts       0         featulatorin mounting dimension       screw foring         featulatorin mounting dimension       screw foring         featulatorin divide autor for auxillary contacts       0         of auxillary and control circuit       screw foring         tightening torque of fixing screw maximum       1.5 In 6         height       ff maintal	control supply voltage at AC	
control supply voltage       90 V         et AC initial value for signal +1> detection       90 V         symmetrical line frequency tolerance       5 Hz         control current at minimum control supply voltage       15 mA         oth-delay time       40 ms; additionally max. one half-wave         OF-delay time       40 ms; additionally max. one half-wave         Auxiliary afford       0         Auxiliary afford       0         Immber of NC contacts for auxiliary contacts       0         number of NC contacts for auxiliary contacts       0         Installation mounting/ dimensions       6         fastening method       5 Nm         side-by-side mounting       Yes         design of the thread of the screw for securing the equipment       1.5 Nm         tightening torque [Ibfring of fixing screw maximum height       1.5 Nm         tightening torque [Ibfring of not accurent circuit       screw-type terminals         of or main current circuit       screw-type terminals         i for main current circuit	<ul> <li>at 50 Hz full-scale value for signal&lt;0&gt; recognition</li> </ul>	40 V
• at AC initial value for signal +1> detection       90 V         symmetrical line frequency tolesance       5 Hz         control current at minimum control supply voltage       15 mA         • at AC       2 mA         Control current at AC rated value       15 mA         OH-delay time       40 ms; additionally max. one half-wave         Auxiliary circuit       7 main controls for auxiliary contacts         number of NC contacts for auxiliary contacts       0         number of CO contacts for auxiliary contacts       0         number of NC contacts for auxiliary contacts       0         fastening method       screw foxing         * is able by-side mounting       fastening method         * is able by-side mounting       screw foxing         fightening forque of fixing screw maximum       1.5 N m         tightening torque of fixing screw maximum       1.5 N m         tightening torque of fixing screw maximum       1.5 N m         tightening torque of fixing screw maximum       1.5 N m         tightening torque of fixing screw maximum       1.5 N m         tightening torque of fixing	<ul> <li>at 60 Hz full-scale value for signal&lt;0&gt; recognition</li> </ul>	40 V
symmetrical line frequency folerance         5 Hz           control current at minimum control supply voltage         2 mA           at AC         15 mA           Oh-dolay time         40 ms; additionally max. one half-wave <b>OFF-dolay time</b> 40 ms; additionally max. one half-wave <b>Auxiliary actoratis for auxiliary contacts</b> 0           number of NC contacts for auxiliary contacts         0           Image: The standard dimensions         5 Hz           fastening method         3 ma           eside-by-side mounting         Yes           side-by-side mounting         Yes           fastening method         15 Nm           tightening torque (IbFing fing screw maximum tightening torque (IbFing of fing screw maximum tightening torque (IbFing of fing screw maximum tightening torque (IbFing of thing screw screw-type terminals           of or main current drout         screw-type terminals           i for main current drout         screw-type terminals           i for main contacts         tor maximaly and control contacts           i e s	control supply voltage	
control current at minimum control supply voltage       2 mA         • et IAC       2 mA         Oh-delay time       40 ms; additionally max: one half-wave         OH-delay time       40 ms; additionally max: one half-wave         Availary circuit       0         number of NC contacts for auxiliary contacts       0         number of NC contacts for auxiliary contacts       0         number of CC contacts for auxiliary contacts       0         fasting method       screw fixing         • side-by-side mounting       Yes         fasting method       screw fixing         • side-by-side mounting       Yes         fasting method       screw fixing         • side-by-side mounting       Yes         design of the thread of the screw for securing the equipment       15 N m         tightening torque of fixing screw maximum       13 brin         height       48 mm         Connections/ Terminals       screw-type terminals         for ania contacts       - sore-type terminals         • for main contacts       - sore-type terminals         •	C C	
• at AC     2 mA       control current at AC rated value     15 mA       OH-delay time     40 ms; additionally max. one half-wave       AVxiliary durated time     40 ms; additionally max. one half-wave       Avxiliary durated to Contacts for auxiliary contacts     0       number of NC contacts for auxiliary contacts     0       number of NC contacts for auxiliary contacts     0       number of NC contacts for auxiliary contacts     0       installator/ mounting/ duransions     5       festening method     screw fixing       • side-by-side mounting     Yes       design of the threed of the screw for securing the quipment     15 hm       tightening torque (bfring) of fixing screw maximum     15 hm       tightening torque (bfring) of fixing screw maximum     15 hm       tightening torque (bfring) of fixing screw maximum     15 hm       tightening torque (bfring) of fixing screw maximum     15 hm       tightening torque (bfring) of fixing screw maximum     15 hm       tightening torque (bfring) of fixing screw maximum     15 hm       tightening torque (bfring) of fixing screw maximum     15 hm       tightening torque (bfring) of fixing screw maximum     15 hm       tightening torque (bfring) of fixing screw maximum     15 hm       tightening torque (bfring) of fixing screw three maximum     15 hm       of or auxiliary and control		5 Hz
control current at AC rated value     16 mA       ON-daty time     40 ms; additionally max. one half-wave       Auxiliary circuit     0       number of NC contacts for auxiliary contacts     0       number of NC contacts for auxiliary contacts     0       number of NC contacts for auxiliary contacts     0       Installation/mounting/ dimensions     0       fastening method     screw fixing       • side-by-side mounting     Yes       design of the thread of the screw for securing the equipment     1.5 N m       tightening torque of fixing screw maximum     1.5 N m       tightening torque of fixing screw maximum tightening torque of the conductor cross-sections     screw-type terminals       • for auxiliary and cortrol circuit     screw-type terminals     screw-type terminals       • for auxiliary and cortrol contacts     2x (1 5 25 mm²), 2x (2 5 6 mm²)     2x (1 4 10)       contactable conductor cross-sections     1.5 6 mm²     1 10 mm²       • for auxiliary and control contacts     1.x (0 5 25 mr²), 2x (0 5 10 mr²)     1 10 mr²       • for auxiliary and control contacts <th></th> <th></th>		
ON-clear time     40 ms; additionally max: one half-wave       OFF-delay time     40 ms; additionally max: one half-wave       Auxiliary contacts for auxiliary contacts     0       number of NC contacts for auxiliary contacts     0       number of NC contacts for auxiliary contacts     0       Installation' mounting/ dimensions     0       festening method     screw fixing       - side-by-side mounting     Yes       design of the thread of the screw for securing the equipment     15 N m       tightening torque [bi:hi] of fixing screw maximum     13 lbf:in       tightening torque [bi:hi] of fixing screw maximum     13 lbf:in       bight     48 mm       Connectable     connectable       for main current circuit     screw-type terminals       tor auxiliary and control circuit     screw-type terminals       tor auxiliary and control circuit     screw-type terminals       e olid     1.5 6 mm <sup>3</sup> - solid     1.5 6 mm <sup>3</sup> - so		
OFF- datay time         40 ms; additionally max. one half-wave           Auxiliary circuit         0           number of NC contacts for auxiliary contacts         0           Installation/ mounting/ dimensions         0           fasting method         screw fixing           eside-by-side mounting         Yes           design of the thread of the screw for securing the equipment         M4           tightening torque of fixing screw maximum         1.5 N·m           tightening torque of fixing screw maximum         1.5 N·m           tightening torque of fixing screw maximum         1.5 N·m           witch         45 mm           deaph         46 mm           Connections/ Torminals         screw-type terminals           screw-type terminals         screw-type terminals           of or main contacts         2x (1.5 2.5 mm²), 2x (2.5 6 mm²)           i for main contacts         2x (1.4 10)           concatable conductor cross-sections         1.5 6 mm²           i for auxiliary and control contacts         2x (1.4 10)           contactable conductor cross-sections         1.5 6 mm²           i for auxiliary and control contacts         1 10 mm²           i for auxiliary and control contacts         1 0 mm²           type of connectabl		
Auxiliary circuit       0         number of NC contacts for auxiliary contacts       0         number of NC contacts for auxiliary contacts       0         Installation/ mounting/ clinensions       0         fastening method       screw fixing         • side-by-side mounting       M4         design of the thread of the screw for securing the equipment       M4         tightening torque [16/in] of fixing screw maximum       1.5 N-m         tightening torque [16/in] of fixing screw maximum       1.5 N-m         tightening torque [16/in] of fixing screw maximum       1.5 N-m         tightening torque [16/in] of fixing screw maximum       58 mm         width       46 mm         dopth       48 mm         connectable conductor cross-sections         • for main current circuit       screw-type terminals         screw-type terminals       screw-type terminals         connectable conductor cross-sections       (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> )         • for auxiliary and control contacts       1.x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> )         • for auxiliary and control contacts       1.x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> )         • for auxiliary and control contacts       1.x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> )         • for auxiliary and control contacts <t< th=""><th></th><th></th></t<>		
number of NC contacts for auxiliary contacts         0           number of NC contacts for auxiliary contacts         0           Installation for Contacts for auxiliary contacts         0           Installation for Contacts for auxiliary contacts         0           Installation for contacts         0           Installation for contacts         0           Installation for contacts         0           Installation for contacts         0           Ige in fits the thread of the screw for securing the equipment         M4           tightening torque of fixing screw maximum         1.5 N·m           tightening torque (lbf-in) of fixing screw maximum         1.5 N·m           height         48 mm           Connections/ Terminals         screw-type terminals           type of connectable conductor cross-sections         screw-type terminals           • for main contacts         - solid           - main contacts         2x (1.2.5 mm²), 2x (2.5 6 mm²)           - solid         1.5 6 mm²           - fiely stranded with core end processing         1.5 6 mm²           - fiely stranded with core end processing         1.4 (0.5 2.5 mm²), 2x (0.5 1.0 mm²)           - solid         1.5 6 mm²           - solid         1 10 mm²           - solid		40 ms, additionally max. one hait-wave
number of NO contacts for auxiliary contacts         0           number of CO contacts for auxiliary contacts         0           fastening method         screw fixing           • side-by-side mounting         Yes           design of the thread of the screw for securing the equipment         M4           tightening torque of fixing screw maximum         1.5 N·m           of ontactions         5 m·m           fixing screw-type terminals         5 m·m           type of connectable conductor cross-sections         5 (-f maxiliary and control contacts           e old or stranded         1.5 6 mm <sup>2</sup> e old or stranded         1.5 6 mm <sup>2</sup> e for auxiliary and control contacts		0
number of CO contacts for auxiliary contacts         0           Installation/ mounting/ dimensions         screw fixing           fastening method         screw fixing           • side-by-side mounting         Yes           design of the thread of the screw for securing the equipment         M4           tightening torque (Ibf in) of fixing screw maximum         15 Nrm           tightening torque (Ibf in) of fixing screw maximum         13 bf/in           height         48 mm           Connections/ Terminals         Srm with           type of electrical connection         screw-type terminals           • for main contracts         screw-type terminals           • for main contracts         2x (1.5 2.5 mm?), 2x (2.5 6 mm?)           • for auxiliary and control circuit         screw-type terminals           • for main contacts         2x (1.4 10)           • for auxiliary and control cortes         2x (1.4 10           • for auxiliary and control cortes         1.5 6 mm²), 2x (2.5 6 mm²), 1x 10 mm²           • for auxiliary and control contacts         1.5 6 mm², 2x (0.5 1.0 mm²)           • for auxiliary and control contacts         1.4 (0.5 2.5 mm²), 2x (0.5 1.0 mm²)           • for auxiliary and control contacts         1.4 (0.5 2.5 mm²), 2x (0.5 1.0 mm²)           • for auxiliary and co	-	
Installation/ mounting/ dimensions         fastening method       screw fixing         fastening method       screw fixing         e side-by-side mounting       Yes         design of the thread of the screw for securing the equipment       M4         tightening torque [lbf-in] of fixing screw maximum       1.5 N-m         height       38 mm         width       45 mm         depth       48 mm         Connectoins/ Terminals       screw-type terminals         for main current circuit       screw-type terminals         if or main contracts       screw-type terminals         - solid       2x (1. 5 25 mm²), 2x (2. 5 6 mm²)         - finely stranded with core end processing       1 10 mm²         e id AWG cables for main contracts       2x (1 2.5 mm²), 2x (0. 5 1.0 mm²)         - solid or stranded       1.5 6 mm²         - finely stranded with core end processing       1 10 mm²         type of connectable conductor cross-sections       1x (0. 5 2.5 mm²), 2x (0. 5 1.0 mm²)         • for auxiliary and control contacts       1x (0. 5 2.5 mm²), 2x (0. 5 1.0 mm²)         • for auxiliary and control contacts       1x (0. 5 2.5 mm²), 2x (0. 5 1.0 mm²)         • for auxiliary and control contacts       1x (0. 5 2.5 mm²), 2x (0. 5 1.0 mm²)<		
fastening method     screw fixing       • side-by-side mounting     Yes       design of the thread of the screw for securing the equipment     M4       tightening torque [Ib <sup>1</sup> h] of fixing screw maximum     1.5 N·m       hight     1.5 N·m       width     45 mm       depth     48 mm       Connections/ Terminals       type of electrical connection       • for main current circuit     screw-type terminals       • for main current circuit     screw-type terminals       • for main control circuit     screw-type terminals       • for main control circuit     screw-type terminals       • for main contacts     - solid       - solid     2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> )       • for availiary and control contacts     2x (14 10)       • for availiary and control contacts     2x (14 10)       • for availiary and control contacts     1.5 6 mm <sup>2</sup> • for availiary and control contacts     1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> )       • for availiary and control contacts     1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> )       • of availiary and control contacts     14 10       • of availiary and control contacts     14 10       • or availiary and control contacts with screw-type terminals     2 2.5 m <sup>2</sup> , 2x (0.5 1.0 m <sup>2</sup> )       • or availary and control		0
• side-by-side mounting       Yes         design of the thread of the screw for securing the equipment       M4         tightening torque (lbf-in) of fixing screw maximum       1.5 N·m         height       13 lbf-in         height       88 mm         Connections/ Terminals       88 mm         Connections/ Terminals       screw-type terminals         of an auxiliary and control circuit       screw-type terminals         of an auxiliary and control contacts       2x (1.5 2.5 mm²), 2x (2.5 6 mm²)         e finely stranded with core end processing       1.5 6 mm²         of a auxiliary and control contacts       1 10 mm²         e for auxiliary and control contacts       1 00 m²         e for auxiliary and control contacts       1 0.5 2.5 mm²), 2x (0.5 10 mm²)         e for auxiliary and control contacts       1 0.5 mm²), 2x (0.5 10 mm²) <t< th=""><th></th><th>a a real finite a</th></t<>		a a real finite a
design of the thread of the screw for securing the equipmentM4equipment1.5 N·mtightening torque [lbf·in] of fixing screw maximum1.5 N·mhelght38 mmwidth45 mmdepth48 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for main current circuitscrew-type terminals• for main current circuitscrew-type terminals• for main contacts2x (1.5 2.5 mm²), 2x (2.5 6 mm²)- solid2x (1.5 2.5 mm²), 2x (2.5 6 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²)• solid or stranded1.5 6 mm²• for auxiliary and control contacts2x (1 2.5 mm²), 2x (0.5 1.0 mm²• solid or stranded1.5 6 mm²• for auxiliary and control contacts1 10 mm²• for auxiliary and control contacts1 10 mm²- solid1.x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely stranded with core end processing1.x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely stranded with core end processing1.x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely stranded with core end processing1.x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely stranded with core end processing1.x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely stranded with core end processing1.x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely stranded with core end processing1.x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) <th></th> <th>5</th>		5
equipmenttightening torque of fixing screw maximum1.5 N·mheight13 lbf/inheight58 mmwidth45 mmdepth48 mmConnections/Terminalstype of electrical connection• for main current circuitscrew-type terminals• for main contactsscrew-type terminals• for main contacts2x (1.5 2.5 mm²), 2x (2.5 6 mm²)- solid2x (1.5 2.5 mm²), 2x (2.5 6 mm²)- solid or stranded1.5 6 mm²• at AWG cables for main contacts2x (1.4 10)connectable conductor cross-section for main contacts1.5 6 mm²• finely stranded with core end processing1 10 mm²• solid or stranded1.5 6 mm²• finely stranded with core end processing1 10 mm²• finely stranded with core end processing1 10 mm²• finely stranded with core end processing1 0.5 2.5 mm²), 2x (0.5 1.0 mm²)• finely stranded with core end processing1 0.5 2.5 mm²), 2x (0.5 1.0 mm²)• finely stranded with core end processing1 (0.5 2.5 mm²), 2x (0.5 1.0 mm²)• finely stranded with core end processing1 (0.5 2.5 mm²), 2x (0.5 1.0 mm²)• finely stranded with core end processing1 (0.5 2.5 mm²), 2x (0.5 1.0 mm²)• for auxiliary and control contacts1 10WG number as coded connectable conductor cross2 2.5 N·m• for main contacts with screw-type terminals2 2.5 N·m• for main contacts with screw-ty	, ,	
tightening torque of fixing screw maximum1.5 N·mheight3 Bb <sup>f</sup> inheight3 Bb <sup>f</sup> inheight3 Bb <sup>f</sup> inwidth45 mmdepth48 mmconnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for main contactsscrew-type terminals• for main contacts2x (1.5 2.5 mm²), 2x (2.5 6 mm²)- solid2x (1.5 2.5 mm²), 2x (2.5 6 mm²)• finely stranded with core end processing2x (1.4 10)connectable conductor cross-sections1 10 mm²• solid or stranded1 5 6 mm²• solid or stranded1 1 2.5 mm²), 2x (0.5 1.0 mm²)• finely stranded with core end processing1 10 mm²• of auxiliary and control contacts1 10 mm²• finely stranded with core end processing1 10 mm²• finely stranded with core end processing1 0 m²), 2x (0.5 1.0 mm²)• finely stranded with core end processing1 0 m²)• finely stranded with core end processing1 0 2.5 mm²), 2x (0.5 1.0 mm²)• finely stranded with core end processing1 0 0.5 0.6 N·m• finely stranded with core end processing1 0 0.5 0.6 N·m• for auxilia		IVI4
tightening torque [lbf in] of fixing screw maximum height13 lbf in 58 mm 48 mmwidth depth45 mm 48 mmConnection/ Torminalstype of electrical connection • for main current circuitof or main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• for main contacts2x (1.5 2.5 mm²), 2x (2.5 6 mm²)• for wain contacts2x (1 2.6 mm²), 2x (2.5 6 mm²)• for wain contacts2x (1 10 mm²• solid1.5 6 mm²• for auxiliary and control contacts1.1 0 mm²• for auxiliary and control contacts2 2.5 mm²), 2x (0.5 1.0 mm²)• for auxiliary and control contacts1.1 0 mm²• for auxiliary and control contacts1.2 mm²), 2x (0.5 1.0 mm²)• for auxiliary and control contacts1.2 mm²), 2x (0.5 1.0 mm²)• for auxiliary and control contacts1.2 mm²), 2x (0.5 1.0 mm²)• for auxiliary and control contacts1.2 mm²), 2x (0.5 1.0 mm²)• for auxiliary and control contacts1.2 mm²), 2x (0.5 1.0 mm²)• for auxiliary and control contacts1.4 m0• for auxiliary and control contacts with screw-type terminals2 2.5 N·m• for main contacts with screw-type terminals2 2.5 N·m• for auxiliary and control contacts with screw-type terminals7 10.3 lbf in• for auxiliary and control contacts with screw-type terminals7 10.3 lbf in• for main contacts with screw-type terminals7 10.3 lbf in• for maxiliary a		1.5 N·m
width       45 mm         depth       48 mm         Connections/ Terminals         type of electrical connection         • for main current circuit       screw-type terminals         • for main current circuit       screw-type terminals         • for main contacts       - solid         - solid       2x (1.5 2.5 mm²), 2x (2.5 6 mm²)         - finely stranded with core end processing       2x (1.4 10)         connectable conductor cross-sections       2x (1.4 10)         • for auxiliary and control contacts       1.5 6 mm²         • solid or stranded       1.5 6 mm²         • finely stranded with core end processing       1 10 mm²         • for auxiliary and control contacts       1 10 mm²         • for auxiliary and control contacts       1.x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)         • finely stranded with core end processing       1.x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)         • finely stranded with core end processing       1.x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)         • finely stranded with core end processing       1.x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)         • for auxiliary and control contacts       1.x (AWG 20 12)         • for main contacts       2 2.5 Nrm         • for main contacts with screw-type terminals       5 0.6 N·m		13 lbf-in
depth     48 mm       Connections/ Terminals     screw-type terminals       type of electrical connection     screw-type terminals       • for main current circuit     screw-type terminals       • for auxiliary and control circuit     screw-type terminals       • auxiliary and control circuit     screw-type terminals       • auxiliary and control cortacts     2x (1.5 2.5 mm²), 2x (2.5 6 mm²)       • auxiliary and control cortacts     2x (14 10)       • auxiliary and control contacts     2x (14 10)       • for auxiliary and control contacts     1.5 6 mm²       • solid     1.5 6 mm²       • for auxiliary and control contacts     1.5 6 mm²       • for auxiliary and control contacts     1.2 2.5 mm²), 2x (0.5 1.0 mm²)       • for auxiliary and control contacts     1.2 2 mm²), 2x (0.5 1.0 mm²)       • for auxiliary and control contacts     1.2 2 mm²), 2x (0.5 1.0 mm²)       • for auxiliary and control contacts     1.4 10       • for auxiliary and control contacts with screw-type terminals     2 2.5 N·m       • for main contacts with screw-type terminals     2 2.5	height	58 mm
Connections/ Terminals         type of electrical connectable for main current circuit       screw-type terminals         • for axiliary and control circuit       screw-type terminals         • for main contacts       - solid         • of main contacts       2x (1.5 2.5 mm²), 2x (2.5 6 mm²)         • finely stranded with core end processing       2x (1 2.5 mm²), 2x (2.5 6 mm²)         • of auxiliary and control contacts       2x (1 10 mm²         • solid       1.5 6 mm²         • for awxiliary and control contacts       1.5 6 mm²         • solid or stranded       1.5 6 mm²         • finely stranded with core end processing       1 10 mm²         • solid       1.5 6 mm²         • for awxiliary and control contacts       1.5 6 mm²         • solid       1.5 6 mm²         • finely stranded with core end processing       1.4 10 mm²         • finely stranded without core end processing       1.x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)         • finely stranded without core end processing       1.x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)         • for awxiliary and control contacts       1.4 10         AWG number as coded connectable conductor cross section for main contacts with screw-type terminals       2 2.5 N·m         • for main contacts with screw-type terminals       2	-	45 mm
type of electrical connection       • for main current circuit       screw-type terminals         • for auxiliary and control circuit       screw-type terminals         • for main contacts       - solid       2x (1.5 2.5 mm²), 2x (2.5 6 mm²)         • at AWG cables for main contacts       2x (1 2.5 mm²), 2x (2.5 6 mm²)       2x (1 10 mm²         • or onactable conductor cross-section for main contacts       2x (1 2.5 mm²), 2x (2.5 6 mm²)       2x (1 10 mm²         • solid or stranded       1.5 6 mm²       1 10 mm²         • solid or stranded       1.5 6 mm²       1 10 mm²         • solid or stranded with core end processing       1 10 mm²       1 10 mm²         • or auxiliary and control contacts       1 10 mm²       1 10 mm²         • or auxiliary and control contacts       1 2.5 mm²), 2x (0.5 1.0 mm²)       1 10 mm²         • or auxiliary and control contacts       1 10 mm²       1 10 mm²)         • at AWG cables for auxiliary and control contacts       1 (0.5 2.5 mm²), 2x (0.5 1.0 mm²)       1 10 mm²         • at AWG cables for auxiliary and control contacts       1 10 mm²       1 10 mm²         • or main contacts with screw-type terminals       2 2.5 mm²), 2x (0.5 1.0 mm²)       1 10 m²         • for main contacts with screw-type terminals       2 2.5 N·m	depth	48 mm
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>for auxiliary and control circuit</li> <li>for main contacts</li> <li>screw-type terminals</li> <li>the screw-type terminals</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>tightening torque [lbfin]</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts w</li></ul>	Connections/ Terminals	
<ul> <li>for auxiliary and control circuit</li> <li>for main contacts</li> <li>for main contacts</li> <li>solid</li> <li>for main contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> <li>connectable conductor cross-section for main contacts</li> <li>asolid or stranded</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>for auxiliary and control contacts</li> <li>for auxiliary and control contacts</li> <li>finely stranded with core end processing</li> <li>tx (0.5 2.5 mm²), 2x (0.5 1.0 mm²)</li> <li>(0.5 0.6 N·m</li> </ul>	type of electrical connection	
type of connectable conductor cross-sections	<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for main contacts         <ul> <li>for main contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> <li>at AWG cables for auxiliary and control contacts with screw-type terminals</li> <li>at auxilia</li></ul></li></ul>	<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>- solid</li> <li>2x (1.5 2.5 mm<sup>2</sup>), 2x (2.5 6 mm<sup>2</sup>)</li> <li>2x (1 2.5 mm<sup>2</sup>), 2x (2.5 6 mm<sup>2</sup>)</li> <li>2x (1 2.5 mm<sup>2</sup>), 2x (2.5 6 mm<sup>2</sup>)</li> <li>2x (1 10 mm<sup>2</sup></li> <li>2x (1 10)</li> <li>1</li></ul>	type of connectable conductor cross-sections	
finely stranded with core end processing • at AWG cables for main contacts $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), 1x 10 mm^2$ • ornactable conductor cross-section for main contacts $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), 1x 10 mm^2$ • solid or stranded $1.5 6 mm^2$ • finely stranded with core end processing $1 10 mm^2$ type of connectable conductor cross-sections $1 10 mm^2$ • for auxiliary and control contacts $1 10 mm^2$ - solid $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ - finely stranded with core end processing $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ - finely stranded with core end processing $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ - finely stranded with core end processing $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ - finely stranded with core end processing $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ - finely stranded without core end processing $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ - finely stranded without core end processing $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ - at AWG cables for auxiliary and control contacts $1x (AWG 20 12)$ AWG number as coded connectable conductor cross $14 10$ • for main contacts $2 2.5 N \cdot m$ • for main contacts with screw-type terminals $5 0.6 N \cdot m$ • for main contacts with screw-type terminals $7 10.3 lbf-in$ • for main contacts with screw-type terminals $4.5 5.3 lbf-in$ • for main contacts with screw-type terminals $5 5.3 lbf-in$	<ul> <li>for main contacts</li> </ul>	
<ul> <li>at AWG cables for main contacts</li> <li>at AWG cables for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for auxiliary and control contacts</li> <li>at AWG cables for auxiliary and control contacts</li> <li>bightening forque</li> <li>at or main contacts with screw-type terminals</li> <li>big randed (bf-in)</li> <li>connectable conductor cross</li> <li>connectable conductor contacts with screw-type terminals</li> <li>con auxiliary and control contacts with screw-type terminals</li> <li>con contacts with scre</li></ul>		
connectable conductor cross-section for main contacts1.5 6 mm²• solid or stranded1.5 6 mm²• finely stranded with core end processing1 10 mm²type of connectable conductor cross-sections1 10 mm²• for auxiliary and control contacts1 x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- solid1 x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely stranded with core end processing1 x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely stranded without core end processing1 x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely stranded without core end processing1 x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely stranded without core end processing1 x (AWG 20 12)AWG cables for auxiliary and control contacts14 10wG number as coded connectable conductor cross section for main contacts2 2.5 N·m• for main contacts with screw-type terminals0.5 0.6 N·m• for auxiliary and control contacts with screw-type terminals7 10.3 lbf·in• for auxiliary and control contacts with screw-type terminals7 10.3 lbf·in• for auxiliary and control contacts with screw-type terminals7 5.3 lbf·in		
contacts• solid or stranded1.5 6 mm²• finely stranded with core end processing1 10 mm²type of connectable conductor cross-sections1 10 mm²• for auxiliary and control contacts1 x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- solid1 x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely stranded with core end processing1 x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely stranded without core end processing1 x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely stranded without core end processing1 x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely stranded without core end processing1 x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)- finely stranded without core end processing1 x (AWG 20 12)AWG number as coded connectable conductor cross14 10section for main contacts2 2.5 N·mtightening torque0.5 0.6 N·mtightening torque [lbf·in]5 0.6 N·m• for main contacts with screw-type terminals7 10.3 lbf·in• for auxiliary and control contacts with screw-type terminals7 10.3 lbf·in• for auxiliary and control contacts with screw-type terminals7 10.3 lbf·in		2x (14 10)
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>for auxiliary and control contacts</li> <li>– solid</li> <li>1 x (0.5 2.5 mm<sup>2</sup>), 2x (0.5 1.0 mm<sup>2</sup>)</li> <li>– finely stranded with core end processing</li> <li>– finely stranded with core end processing</li> <li>– finely stranded without core ond processing</li> <li>– finely stranded without core end processing</li> <li>– finely stranded without core ond processing</li> <li>– finely stranded without core ond processing</li> <li>– finely stranded without core ond processing</li> <li>– tipe stranded without core ond processing</li> <li>– tipe stranded without core ond processing</li> <li>– tipe stranded without core ond processing</li> <li>– finely stranded without core ond processing</li> <li>– finely stranded without core onto contacts</li> <li>– finely stranded without core onto contacts</li> <li>– finely stranded connectable conductor cross section for main contacts</li> <li>– for main contacts with screw-type terminals</li> <li>– for main contacts with screw-type termi</li></ul>		
<ul> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary and control contacts <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary and control contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>for main contacts with screw-type terminals</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type</li> <li>tightening torque [lbf-in]</li> <li>for auxiliary and control contacts with screw-type</li> <li>terminals</li> <li>for auxiliary and control contacts with screw-type</li> <li>terminals</li> </ul>		$1.5 - 6  \text{mm}^2$
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 strande ontrol contacts- finely stranded without core end processing- for main contacts with screw-type terminals- for main cont		
<ul> <li>for auxiliary and control contacts         <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for main contacts</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type</li> <li>for auxiliary and control contacts with scre</li></ul></li></ul>		
solid1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) finely stranded without core end processing1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) at AWG cables for auxiliary and control contacts1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) at AWG cables for auxiliary and control contacts1x (AWG 20 12)AWG number as coded connectable conductor cross section for main contacts14 10 for main contacts with screw-type terminals2 2.5 N·m of or auxiliary and control contacts with screw-type terminals0.5 0.6 N·m for main contacts with screw-type terminals7 10.3 lbf·in of or auxiliary and control contacts with screw-type terminals4.5 5.3 lbf·in		
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary and control contacts</li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>fightening torque</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type</li> <li>a for auxiliary and control contacts with screw-type</li> <li>for auxiliary and control contacts with screw-type</li> <li>a for auxiliary and control contacts with screw-type</li> <li>a for auxiliary and control contacts with screw-type</li> <li>a for auxiliary and control contacts with screw-type</li> <li>b for auxiliary and control contacts with screw-type</li> <li>a for auxiliary and control contacts with screw-type</li> <li>b for auxiliary and control contacts with screw-type</li> <li>b for auxiliary and control contacts with screw-type</li> <li>b for auxiliary and control contacts with screw-type</li> <li>c for auxiliary and control contacts with screw-type</li> <li>b for auxiliary and control contacts with screw-type</li> <li>c for auxiliary and control contacts with screw-type</li> <li>b for auxiliary and control contacts with screw-type</li> <li>c for auxiliary and control</li></ul>	-	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary and control contacts</li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>fightening torque</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>for main contacts with screw-type terminals</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals<th>— finely stranded with core end processing</th><th></th></li></ul>	— finely stranded with core end processing	
<ul> <li>at AWG cables for auxiliary and control contacts</li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>fightening torque</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>design of the thread of the connection screw</li> </ul>		
section for main contacts       tightening torque         • for main contacts with screw-type terminals       2 2.5 N·m         • for auxiliary and control contacts with screw-type terminals       0.5 0.6 N·m         tightening torque [lbf·in]       0.5 0.10.3 lbf·in         • for main contacts with screw-type terminals       7 10.3 lbf·in         • for auxiliary and control contacts with screw-type terminals       4.5 5.3 lbf·in		
tightening torque2 2.5 N·m• for main contacts with screw-type terminals0.5 0.6 N·m• for auxiliary and control contacts with screw-type terminals7 10.3 lbf·in• for main contacts with screw-type terminals4.5 5.3 lbf·in• for auxiliary and control contacts with screw-type4.5 5.3 lbf·in		14 10
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>tightening torque [lbf·in]</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>design of the thread of the connection screw</li> <li>2 2.5 N·m</li> <li>0.5 0.6 N·m</li> <li>7 10.3 lbf·in</li> <li>4.5 5.3 lbf·in</li> </ul>		
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> <li>tightening torque [lbf·in]</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>design of the thread of the connection screw</li> <li>0.5 0.6 N·m</li> <li>0.5 0.6 N·m<th></th><th>0.05Nm</th></li></ul>		0.05Nm
terminals         tightening torque [lbf·in]         • for main contacts with screw-type terminals         • for auxiliary and control contacts with screw-type terminals         design of the thread of the connection screw		
tightening torque [lbf·in]7 10.3 lbf·in• for main contacts with screw-type terminals7 10.3 lbf·in• for auxiliary and control contacts with screw-type terminals4.5 5.3 lbf·indesign of the thread of the connection screw4.5 5.3 lbf·in		0.5 0.6 N·M
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>design of the thread of the connection screw</li> <li>7 10.3 lbf·in</li> <li>4.5 5.3 lbf·in</li> </ul>		
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> <li>design of the thread of the connection screw</li> </ul>		7 10.3 lbf·in
terminals design of the thread of the connection screw		
-		
e for main contacts M4	design of the thread of the connection screw	
	<ul> <li>for main contacts</li> </ul>	M4

<ul> <li>of the auxiliary and control contacts</li> <li>stripped length of the cable</li> </ul>	M3			
for main contacts	10 mm			
<ul> <li>for auxiliary and control contacts</li> </ul>	7 mm			
Safety related data				
protection class IP on the front according to IEC 60529	IP20			
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				
during operation	-25 +60 °C			
during storage	-55 +80 °C			
Electromagnetic compatibility		_		
conducted interference	$2  \lambda  /  \Sigma   z  = b = b = view eviter view$	on 0		
<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> </ul>	2 kV / 5 kHz behavior criteri 2 kV behavior criterion 2	on z		
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV behavior criterion 2			
<ul> <li>due to high-frequency radiation according to IEC</li> <li>61000-4-6</li> </ul>	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1			
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2	80 MHz 1 GHz 10 V/m, behavior criterion 1			
conducted HF interference emissions according to CISPR11	4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment			
field-bound HF interference emission according to CISPR11	Class B for the domestic, business and commercial environments			
Short-circuit protection, design of the fuse link				
manufacturer's article number				
<ul> <li>of gS fuse for semiconductor protection at NH design usable</li> </ul>	<u>3NE1814-0</u>			
<ul> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> </ul>	<u>5SE1325</u>			
<ul> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> </ul>	<u>3NE8015-1</u>			
<ul> <li>of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable</li> </ul>	<u>3NC1032</u>			
<ul> <li>of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable</li> </ul>	<u>3NC1430</u>			
• of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable	<u>3NC2225</u>			
manufacturer's article number of the gG fuse	2NIACOO2, Theory former	o o omollos setesta	rant than the	
<ul> <li>at NH design usable</li> </ul>	<u>3NA6803;</u> These fuses have a smaller rated current than the semiconductor relays			
• at cylindrical design 10 x 38 mm usable	<u>3NW6001-1;</u> These fuses have a smaller rated current than the semiconductor relays			
• at cylindrical design 14 x 51 mm usable	<u>3NW6101-1;</u> These fuses have a smaller rated current than the semiconductor relays			
manufacturer's article number				
<ul> <li>of NEOZED fuse usable</li> </ul>	5SE2306; These fuses have a smaller rated current than the semiconductor relays			
Certificates/ approvals				
General Product Approval		EMC	Declaration of Conformity	
Confirmation		^		
Confirmation	101	Â	(6	
	EAC		CE	
Confirmation Survey	EAC		CE EG-Konf.	
	EHC	RCM	CE EG-Konf.	
	EHC	RCM	CE EG-Konf.	
Declaration of Test Cortificates other	EAC	RCM	CE EG-Konf.	
	EAC	RCM	CE EG-Konf.	
Declaration of Test Cortificates other	EAC	RCM	CE EG-Konf.	



Type Test Certificates/Test Report

## Further information

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2020-1AA22

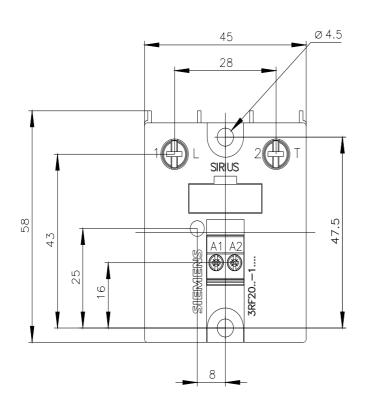
Cax online generator

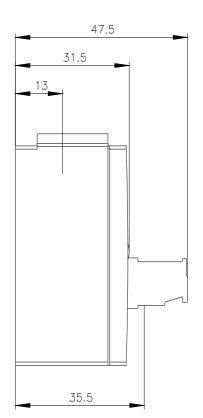
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2020-1AA22

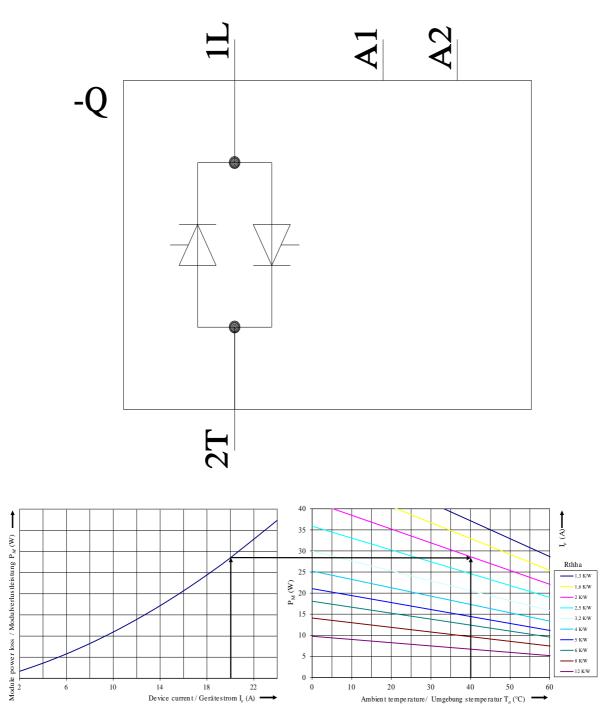
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2020-1AA22

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bildb/cax\_de.aspx?mlfb=3RF2020-1AA22&lang=en">http://www.automation.siemens.com/bildb/cax\_de.aspx?mlfb=3RF2020-1AA22&lang=en</a>







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