## SIEMENS

## Data sheet

## 3RF2350-1AA45



Solid-state contactor 1-phase 3RF2 AC 51 / 50 A / 40  $^\circ\rm{C}$  48-600 V / 4-30 V DC screw terminal Blocking voltage 1200 V

product brand name         SIRUS           product designation         solid-state contactor           design of the product         single-phase           product type designation         3RF23           manufacturer's article number         3RF2200_0FA18		
design of the product     single-phase       product type designation     3RF23       manufactury's article number     3RF2300-0EA18	product brand name	SIRIUS
product type designation         3RF23           manufacturer's article number         3RF2300-3PA88           - 1 of the accessories that can be ordered         3RF2900-3PA88           - 3 of the accessories that can be ordered         3RF2920-0EA18           - 4 of the accessories that can be ordered         3RF2920-0EA18           - 3 of the accessories that can be ordered         converter           - 3 of the accessories that can be ordered         converter           - 4 of the accessories that can be ordered         converter           - 4 of the accessories that can be ordered         converter           - 4 of the accessories that can be ordered         comverter           - 4 of the accessories that can be ordered         comverter           - 4 of the accessories that can be ordered         converter           - 4 of the accessories that can be ordered         converter           - 4 of the accessories that can be ordered         converter           - 4 of the accessories that can be ordered         converter           - 4 of the accessories that can be ordered         converter           - 4 of the accessories that can be ordered         converter           - 4 of the accessories that can be ordered         converter           - at AC in hot operating state         54 W           • at AC in hot operating voltage	product designation	solid-state contactor
manufacturer's article number     3RE2900-3PA88       -1 of the accessories that can be ordered     3RE2900-3PA88       -3 of the accessories that can be ordered     3RE2900-0PEA18	design of the product	single-phase
• _1 of the accessories that can be ordered     3RE200.3PA88       • _3 of the accessories that can be ordered     3RE200.3PA88       product designation     Imministry of the accessories that can be ordered       • _1 of the accessories that can be ordered     converter       • _3 of the accessories that can be ordered     converter       • _3 of the accessories that can be ordered     converter       • _4 of the accessories that can be ordered     load monitoring       Ceneral technical data     zero-point switching       power loss (W) for rated value of the current     start C in hot operating state       • at AC in hot operating state per pole     54 W       • at AC in hot operating state per pole     660 V       degree of pollution     3       insulation voltage rated value     600 V       degree of pollution     3       strype of voltage     AC       • of the operating voltage     DC       surge voltage resistance of main circuit rated value     6 kV       shock resistance according to IEC 60068-2-27     1 fbg /11 ms       vibration resistance according to IEC 60068-2-6     2g       reference code according to IEC 61346-2     Q       Substance Prohibitance (Date)     05/28/2009       Main of NO contacts for main contacts     1       number of NC contacts for main contacts     0       typp	product type designation	3RF23
• 3 of the accessories that can be ordered         3RF290-0EA18           • 4 of the accessories that can be ordered         3RF295-0CA16           product designation         •           • 1 of the accessories that can be ordered         terminal cover           • 3 of the accessories that can be ordered         townetter           • 4 of the accessories that can be ordered         townetter           • 4 of the accessories that can be ordered         townetter           • 6 of the accessories that can be ordered         townetter           • 6 of the accessories that can be ordered         townetter           • 6 of the accessories that can be ordered         townetter           • 6 of the accessories that can be ordered         townetter           • 6 of the accessories that can be ordered         townetter           • 6 of the accessories that can be ordered         townetter           • 6 of the operating state per pole         54 W           • eit AC in hot operating state per pole         54 W           • of the operating voltage         DC           • of the operating voltage         DC           • of the operating voltage         DC           • of the operating to IEC 60068-2-7         15g / 11 ms           vibration resistance according to IEC 60068-2-7         2g           reference code acco	manufacturer's article number	
• _ 4 of the accessories that can be ordered     3RF2950-0GA15       product designation     Imminal cover       • _ 1 of the accessories that can be ordered     converter       • _ 4 of the accessories that can be ordered     load monitoring       Ceneral technical data	<ul> <li>_1 of the accessories that can be ordered</li> </ul>	3RF2900-3PA88
product designation     terminal cover       •_1 of the accessories that can be ordered     converter       •_3 of the accessories that can be ordered     converter       •_4 of the accessories that can be ordered     load monitoring       General tochnical data     zero-point switching       product function     zero-point switching       power loss [W] for rated value of the current     4 A C in hot operating state       • at AC in hot operating state per pole     54 W       • at AC in hot operating state per pole     54 W       • without load current share typical     0.6 W       linsulation voltage rated value     600 V       degree of pollution     3       type of voltage     AC       • of the control supply voltage     DC       surge voltage resistance according to IEC 60068-2-27     15g / 11 ms       vibration resistance according to IEC 60068-2-52     Q       reference code according to IEC 60068-2-52     Q       reference code according to IEC 60068-2-52     Q       reference code according to IEC 81346-2     Q       vibration resistance according to IEC 81346-2     Q       reference code according to IEC 81346-2     Q       substance Prohibitance (Date)     05/28/2009       Main circuit     1       number of NO contacts for main contacts     1       numbe	<ul> <li>_3 of the accessories that can be ordered</li> </ul>	<u>3RF2900-0EA18</u>
• _1 of the accessories that can be ordered       terminal cover         • _3 of the accessories that can be ordered       load monitoring         General technical data	<ul> <li>_4 of the accessories that can be ordered</li> </ul>	<u>3RF2950-0GA16</u>
•_3 of the accessories that can be ordered     load monitoring       Cenoral technical data     zero-point switching       product function     zero-point switching       at AC in hot operating state     54 W       • at AC in hot operating state     54 W       • without load current share typical     0.6 W       insulation voltage rated value     600 V       degree of pollution     3       type of voltage     AC       • of the coperating voltage     DC       subscreecting to IEC 60068-2-27     15g / 11 ms       vibration resistance according to IEC 60068-2-27     15g / 11 ms       vibration resistance according to IEC 60068-2-6     2g       reference code according to IEC	product designation	
• _ 4 of the accessories that can be ordered     load monitoring       General technical data     zero-point switching       product function     zero-point switching       power loss [W] for rated value of the current     4       • at AC in hot operating state     54 W       • at AC in hot operating state per pole     54 W       • without load current share typical     0.6 W       insulation voltage rated value     600 V       degree of pollution     3       type of voltage     AC       • of the operating voltage     DC       surge voltage resistance of main circuit rated value     6 kV       shock resistance according to IEC 60068-2-27     15g / 11 ms       vibration resistance according to IEC 60068-2-6     2g       reference code according to IEC 81346-2     Q       Substance Prohibitance (Date)     05/28/2009       Main circuit     1       number of NO contacts for main contacts     1       number of NO contacts for main contacts     0       type of voltage of the operating voltage     AC       • at XC     - at 50 Hz rated value     48 600 V       - at 60 Hz rated value     48	<ul> <li>_1 of the accessories that can be ordered</li> </ul>	terminal cover
General technical data       zero-point switching         product function       zero-point switching         power loss [W] for rated value of the current       54 W         • at AC in hot operating state       54 W         • at AC in hot operating state per pole       54 W         • without load current share typical       0.6 W         insulation voltage rated value       600 V         degree of pollution       3         type of voltage       AC         • of the operating voltage       DC         surge voltage resistance of main circuit rated value       6 kV         shock resistance according to IEC 60068-2-27       15g / 11 ms         vibration resistance according to IEC 60068-2-6       2g         reference code according to IEC 60068-2-6       2g         reference code according to IEC 81346-2       Q         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       05/28/2009         Main circuit       1         number of NC contacts for main contacts       1         number of NC contacts for main contacts       0         type of voltage of the operating voltage       AC         operating voltage       AC         operating voltage       AC         op	<ul> <li>_3 of the accessories that can be ordered</li> </ul>	converter
product function         zero-point switching           power loss [W] for rated value of the current         • at AC in hot operating state         54 W           • at AC in hot operating state per pole         54 W         • without load current share typical           0.6 W         insulation voltage rated value         600 V           degree of pollution         3         1           • of the operating voltage         AC         • of the operating voltage           • of the operating voltage         DC         surge voltage resistance of main circuit rated value           shock resistance according to IEC 60068-2-27         15g/ 11 ms         1           vibration resistance according to IEC 60068-2-6         2g         Q           reference code according to EIC 61068-2-6         2g         Q           substance Prohibitance (Date)         05/28/2009         0           Main circuit         1         1           number of NC contacts for main contacts         1         1           number of NC contacts for main contacts         0         1           type of voltage of the operating voltage         AC         0           operating voltage         AC         0         0           substance Prohibitance (Date)         05/28/2009         0         0 <t< th=""><th><ul> <li>_4 of the accessories that can be ordered</li> </ul></th><th>load monitoring</th></t<>	<ul> <li>_4 of the accessories that can be ordered</li> </ul>	load monitoring
power loss [W] for rated value of the current       i       i         • at AC in hot operating state       54 W         • at AC in hot operating state per pole       54 W         • without load current share typical       0.6 W         Insulation voltage rated value       600 V         degree of pollution       3         type of voltage       AC         • of the operating voltage       DC         surge voltage resistance of main circuit rated value       6 kV         shock resistance according to IEC 60068-2-7       15g / 11 ms         vibration resistance according to IEC 60068-2-6       2g         reference code according to IEC 60068-2-6       2g         reference code according to IEC 81346-2       Q         Natin circuit       1         number of poles for main current circuit       1         number of NC contacts for main contacts       1         number of NC contacts for main contacts       0         type of voltage       AC         • at &O Hz rated value       48 600 V         - at 50 Hz rated value       48 600 V         - at 60 Hz rated value       48 600 V	General technical data	
• at AC in hot operating state       54 W         • at AC in hot operating state per pole       54 W         • without load current share typical       0.6 W         Insulation voltage rated value       600 V         degree of pollution       3         type of voltage       -         • of the operating voltage       AC         • of the control supply voltage       DC         surge voltage resistance of main circuit rated value       6 kV         shock resistance according to IEC 60068-2-27       156 V1 ms         vibration resistance according to IEC 60068-2-6       2g         reference code according to IEC 80068-2-6       2g         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       05/28/2009         Main circuit       1         number of NC contacts for main contacts       1         number of NC contacts for main contacts       0         type of voltage       AC         operating voltage       AC         - at 60 Hz rated value       48 600 V         - at 60 Hz rated value       48 600 V         - at 60 Hz rated value       50 60 Hz	product function	zero-point switching
• at AC in hot operating state per pole       54 W         • without load current share typical       0.6 W         insulation voltage rated value       600 V         degree of pollution       3         type of voltage       AC         • of the operating voltage       DC         surge voltage resistance of main circuit rated value       6 kV         shock resistance according to IEC 60068-2-27       15g / 11 ms         vibration resistance according to IEC 60068-2-6       2g         reference code according to IEC 60068-2-6       2g         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       05/28/2009         Main circuit       1         number of poles for main current circuit       1         number of NC contacts for main contacts       1         number of NC contacts for main contacts       0         type of voltage       AC         operating voltage       AC         - at 50 Hz rated value       48 600 V         - at 60 Hz rated value       48 600 V         - at 60 Hz rated value       50 60 Hz	power loss [W] for rated value of the current	
• without load current share typical       0.6 W         Insulation voltage rated value       600 V         degree of pollution       3         type of voltage       AC         • of the operating voltage       DC         surge voltage resistance of main circuit rated value       6 kV         shock resistance according to IEC 60068-2-27       15g / 11 ms         vibration resistance according to IEC 60068-2-6       2g         reference code according to IEC 60068-2-6       2g         reference code according to IEC 81346-2       Q         substance Prohibitance (Date)       05/28/2009         Main circuit       1         number of poles for main current circuit       1         number of NC contacts for main contacts       1         operating voltage       AC         • at AC       -         - at 50 Hz rated value       48 600 V         - at 60 Hz rated value       48 600 V         - at 60 Hz rated value       48 600 V	<ul> <li>at AC in hot operating state</li> </ul>	54 W
insulation voltage rated value       600 V         degree of pollution       3         type of voltage       AC         • of the operating voltage       DC         surge voltage resistance of main circuit rated value       6 kV         shock resistance according to IEC 60068-2-27       15g / 11 ms         vibration resistance according to IEC 60068-2-6       2g         reference code according to IEC 81346-2       Q         substance Prohibitance (Date)       05/28/2009         Main circuit       1         number of poles for main current circuit       1         number of NC contacts for main contacts       0         type of voltage       AC         • at AC       -         - at 50 Hz rated value       48 600 V         - at 60 Hz rated value       48 600 V         - at 60 Hz rated value       48 600 V	<ul> <li>at AC in hot operating state per pole</li> </ul>	54 W
degree of pollution       3         type of voltage       AC         • of the operating voltage       DC         surge voltage resistance of main circuit rated value       6 kV         shock resistance according to IEC 60068-2-27       15g / 11 ms         vibration resistance according to IEC 60068-2-6       2g         reference code according to IEC 60068-2-6       Q         substance Prohibitance (Date)       05/28/2009         Main circuit       1         number of poles for main contacts       1         number of NC contacts for main contacts       0         type of voltage       AC         • at AC       -         - at 50 Hz rated value       48 600 V         - at 60 Hz rated value       48 600 V         - at 60 Hz rated value       50 60 Hz	<ul> <li>without load current share typical</li> </ul>	0.6 W
type of voltage• of the operating voltageAC• of the control supply voltageDCsurge voltage resistance of main circuit rated value6 kVshock resistance according to IEC 60068-2-2715g / 11 msvibration resistance according to IEC 60068-2-62greference code according to IEC 81346-2Qreference code according to IEC 81346-2QSubstance Prohibitance (Date)05/28/2009Main circuit1number of poles for main contacts1number of NC contacts for main contacts0type of voltageACoperating voltageAC- at 50 Hz rated value48 600 V- at 60 Hz rated value48 600 V- at 60 Hz rated value48 600 V- at 60 Hz rated value50 60 Hz	insulation voltage rated value	600 V
• of the operating voltageAC• of the control supply voltageDCsurge voltage resistance of main circuit rated value6 kVshock resistance according to IEC 60068-2-2715g / 11 msvibration resistance according to IEC 60068-2-62greference code according to IEC 60068-2-62greference code according to IEC 81346-2QSubstance Prohibitance (Date)05/28/2009Main circuit1number of poles for main current circuit1number of NO contacts for main contacts1number of NC contacts for main contacts0type of voltage of the operating voltageACoperating voltageAC- at 50 Hz rated value48 600 V- at 60 Hz rated value48 600 V- at 60 Hz rated value50 60 Hz	degree of pollution	3
• of the control supply voltage       DC         surge voltage resistance of main circuit rated value       6 kV         shock resistance according to IEC 60068-2-27       15g / 11 ms         vibration resistance according to IEC 60068-2-6       2g         reference code according to EN 61346-2       Q         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       05/28/2009         Main circuit       1         number of poles for main current circuit       1         number of NO contacts for main contacts       1         number of NC contacts for main contacts       0         type of voltage of the operating voltage       AC         operating voltage       - at 50 Hz rated value         - at 60 Hz rated value       48 600 V         - at 60 Hz rated value       48 600 V	type of voltage	
surge voltage resistance of main circuit rated value       6 kV         shock resistance according to IEC 60068-2-27       15g / 11 ms         vibration resistance according to IEC 60068-2-6       2g         reference code according to EN 61346-2       Q         g       Q         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       05/28/2009         Main circuit       1         number of poles for main current circuit       1         number of NO contacts for main contacts       1         number of NC contacts for main contacts       0         type of voltage of the operating voltage       AC         operating voltage       48 600 V         - at 50 Hz rated value       48 600 V         - at 60 Hz rated value       50 60 Hz	<ul> <li>of the operating voltage</li> </ul>	AC
shock resistance according to IEC 60068-2-27       15g / 11 ms         vibration resistance according to IEC 60068-2-6       2g         reference code according to EN 61346-2       Q         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       05/28/2009         Main circuit       1         number of poles for main current circuit       1         number of NO contacts for main contacts       1         number of NC contacts for main contacts       0         type of voltage of the operating voltage       AC         operating voltage       48 600 V         - at 50 Hz rated value       48 600 V         - at 60 Hz rated value       48 600 V	<ul> <li>of the control supply voltage</li> </ul>	DC
vibration resistance according to IEC 60068-2-62greference code according to EN 61346-2Qreference code according to IEC 81346-2QSubstance Prohibitance (Date)05/28/2009Main circuit1number of poles for main current circuit1number of NO contacts for main contacts1number of NC contacts for main contacts0type of voltage of the operating voltageACoperating voltage48 600 V- at 50 Hz rated value48 600 V- at 60 Hz rated value50 60 Hz	surge voltage resistance of main circuit rated value	6 kV
reference code according to EN 61346-2Qreference code according to IEC 81346-2QSubstance Prohibitance (Date)05/28/2009Main circuit1number of poles for main current circuit1number of NO contacts for main contacts1number of NC contacts for main contacts0type of voltage of the operating voltageACoperating voltage48 600 V- at 50 Hz rated value48 600 Voperating frequency rated value50 60 Hz	shock resistance according to IEC 60068-2-27	15g / 11 ms
reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       05/28/2009         Main circuit       1         number of poles for main current circuit       1         number of NO contacts for main contacts       1         number of NC contacts for main contacts       0         type of voltage of the operating voltage       AC         operating voltage       - at 50 Hz rated value         - at 60 Hz rated value       48 600 V         - at 60 Hz rated value       50 60 Hz	vibration resistance according to IEC 60068-2-6	2g
Substance Prohibitance (Date)       05/28/2009         Main circuit       1         number of poles for main current circuit       1         number of NO contacts for main contacts       1         number of NC contacts for main contacts       0         type of voltage of the operating voltage       AC         operating voltage       • at AC         at 50 Hz rated value       48 600 V         at 60 Hz rated value       50 60 Hz	reference code according to EN 61346-2	Q
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         type of voltage of the operating voltage       AC         operating voltage       AC         - at 50 Hz rated value       48 600 V         - at 60 Hz rated value       48 600 V         operating frequency rated value       50 60 Hz	reference code according to IEC 81346-2	Q
number of poles for main current circuit       1         number of NO contacts for main contacts       1         number of NC contacts for main contacts       0         type of voltage of the operating voltage       AC         operating voltage       AC         - at 50 Hz rated value       48 600 V         - at 60 Hz rated value       48 600 V         operating frequency rated value       50 60 Hz	Substance Prohibitance (Date)	05/28/2009
number of NO contacts for main contacts       1         number of NC contacts for main contacts       0         type of voltage of the operating voltage       AC         operating voltage       AC         • at AC       -         at 50 Hz rated value       48 600 V         at 60 Hz rated value       48 600 V         operating frequency rated value       50 60 Hz	Main circuit	
number of NC contacts for main contacts       0         type of voltage of the operating voltage       AC         operating voltage       • at AC	number of poles for main current circuit	1
type of voltage of the operating voltage       AC         operating voltage	number of NO contacts for main contacts	1
operating voltage     Image: Constraint of the second	number of NC contacts for main contacts	0
• at AC       at 50 Hz rated value       at 60 Hz rated value       48 600 V       48 600 V       50 at 60 Hz rated value       50 60 Hz	type of voltage of the operating voltage	AC
	operating voltage	
— at 60 Hz rated value         48 600 V           operating frequency rated value         50 60 Hz	• at AC	
operating frequency rated value 50 60 Hz	— at 50 Hz rated value	48 600 V
	— at 60 Hz rated value	48 600 V
operating range relative to the operating voltage at AC	operating frequency rated value	50 60 Hz
	operating range relative to the operating voltage at AC	

• at 50 Hz	40 660 V
• at 60 Hz	40 660 V
operational current	
• at AC-51 rated value	50 A
<ul> <li>at AC-51 according to IEC 60947-4-3</li> </ul>	36 A
<ul> <li>according to UL 508 rated value</li> </ul>	45 A
operational current minimum	500 mA
rate of voltage rise at the thyristor for main contacts maximum permissible	1 000 V/µs
blocking voltage at the thyristor for main contacts maximum permissible	1 200 V
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value	1 150 A
l2t value maximum	6 600 A <sup>2</sup> ·s
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage 1	
• at DC rated value	30 V
• at DC	4 30 V
control supply voltage	
at DC initial value for signal <1> detection	4 V
at DC full-scale value for signal <0> recognition	1 V
control current at minimum control supply voltage	
• at DC	18 mA
control current at DC rated value	20 mA
ON-delay time	1 ms; additionally max. one half-wave
OFF-delay time	1 ms; additionally max. one half-wave
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions	
Installation/ mounting/ dimensions fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715
Installation/ mounting/ dimensions fastening method • side-by-side mounting	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes
Installation/ mounting/ dimensions fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4
Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes
Installation/ mounting/ dimensions fastening method  • side-by-side mounting design of the thread of the screw for securing the equipment	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4
Installation/ mounting/ dimensions fastening method  • side-by-side mounting design of the thread of the screw for securing the equipment height	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4 100 mm
Installation/ mounting/ dimensions fastening method  • side-by-side mounting design of the thread of the screw for securing the equipment height width	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4 100 mm 67 mm
Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4 100 mm 67 mm
Installation/ mounting/ dimensions fastening method  • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4 100 mm 67 mm 141 mm
Installation/ mounting/ dimensions fastening method  • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4 100 mm 67 mm 141 mm
Installation/ mounting/ dimensions fastening method  • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4 100 mm 67 mm 141 mm Yes
Installation/ mounting/ dimensions fastening method  • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4 100 mm 67 mm 141 mm Yes Screw-type terminals
Installation/ mounting/ dimensions fastening method  • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4 100 mm 67 mm 141 mm Yes Screw-type terminals
Installation/ mounting/ dimensions fastening method  • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4 100 mm 67 mm 141 mm Yes Screw-type terminals
Installation/ mounting/ dimensions fastening method  • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4 100 mm 67 mm 141 mm Yes Screw-type terminals screw-type terminals
Installation/ mounting/ dimensions fastening method  • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts solid	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4 100 mm 67 mm 141 mm Yes Screw-type terminals screw-type terminals 2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
Installation/ mounting/ dimensions fastening method  • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit 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	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4 100 mm 67 mm 141 mm Yes Yes Screw-type terminals screw-type terminals screw-type terminals
Installation/ mounting/ dimensions fastening method  • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit 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 • for AWG cables for main contacts	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4 100 mm 67 mm 141 mm Yes Yes Screw-type terminals screw-type terminals screw-type terminals
Installation/ mounting/ dimensions fastening method  • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit 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 • for AWG cables for main contacts • solid or stranded	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 Yes M4 100 mm 67 mm 141 mm Yes Screw-type terminals screw-type terminals $2x (1.5 2.5 mm^2), 2x (2.5 6 mm^2)$ $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), 1x 10 mm^2$ 2x (14 10)
Installation/ mounting/ dimensions fastening method  • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit 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 • for AWG cables for main contacts • solid or stranded • finely stranded with core end processing • for level or stranded • finely stranded with core end processing • for stranded • finely stranded with core end processing	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715         Yes         M4         100 mm         67 mm         141 mm         Yes         Screw-type terminals         screw-type terminals         2x (1.5 2.5 mm²), 2x (2.5 6 mm²)         2x (1.4 10)         1.5 6 mm²
Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit 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 • for AWG cables for main contacts • solid or stranded • finely stranded with core end processing • for processing • for stranded • finely stranded with core end processing • for processing • for stranded • finely stranded with core end processing • for processing • for stranded • finely stranded with core end processing • for processing • for stranded • finely stranded with core end processing • for processing • for stranded • finely stranded with core end processing • for connectable conductor cross-sections	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715         Yes         M4         100 mm         67 mm         141 mm         Yes         Screw-type terminals         screw-type terminals         2x (1.5 2.5 mm²), 2x (2.5 6 mm²)         2x (1.4 10)         1.5 6 mm²
Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit 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 • for AWG cables for main contacts • solid or stranded • finely stranded with core end processing • for AWG cables for main contacts • solid or stranded • finely stranded with core end processing • for auxiliary and control contacts • solid or stranded • finely stranded with core end processing • for auxiliary and control contacts • solid or stranded • finely stranded with core end processing • for auxiliary and control contacts • solid or stranded • finely stranded with core end processing • for auxiliary and control contacts • for auxiliary and control contacts	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715         Yes         M4         100 mm         67 mm         141 mm         Yes         Screw-type terminals         screw-type terminals         2x (1.5 2.5 mm²), 2x (2.5 6 mm²)         2x (14 10)         1.5 6 mm²         1 10 mm²
Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit 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 • for AWG cables for main contacts solid or stranded • finely stranded with core end processing • for auxiliary and control contacts • solid or stranded • finely stranded with core end processing • for auxiliary and control contacts • solid or stranded • finely stranded with core end processing • for auxiliary and control contacts • solid or stranded • finely stranded with core end processing • for auxiliary and control contacts • solid or stranded • for auxiliary and control contacts • for auxiliary and control contacts • for auxiliary and control contacts • solid	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715         Yes         M4         100 mm         67 mm         141 mm         Yes         Screw-type terminals         screw-type terminals         2x (1.5 2.5 mm²), 2x (2.5 6 mm²)         2x (14 10)         1.5 6 mm²         1 10 mm²         1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
Installation/ mounting/ dimensions fastening method  • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit 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 • for AWG cables 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 • for auxiliary and control contacts solid solid finely stranded with core end processing • for auxiliary and control contacts solid finely stranded with core end processing • for auxiliary and control contacts solid finely stranded with core end processing • for auxiliary and control contacts solid finely stranded with core end processing	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715         Yes         M4         100 mm         67 mm         141 mm         Yes         Screw-type terminals         screw-type terminals         2x (1.5 2.5 mm²), 2x (2.5 6 mm²)         2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         2x (1 2.5 mm²), 2x (0.5 10 mm²)         1.x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)         1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit 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 • for AWG cables for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts • solid or stranded • finely stranded with core end processing • for auxiliary and control contacts — solid — finely stranded with core end processing • for auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded with core end processing	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715         Yes         M4         100 mm         67 mm         141 mm         Yes         Screw-type terminals         screw-type terminals         2x (1.5 2.5 mm²), 2x (2.5 6 mm²)         2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         2x (1 2.5 mm²), 2x (0.5 10 mm²)         1.5 6 mm²         1 10 mm²         1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)         1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
Installation/ mounting/ dimensions fastening method  • side-by-side mounting design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit 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 • for AWG cables 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 • for auxiliary and control contacts solid solid finely stranded with core end processing • for auxiliary and control contacts solid finely stranded with core end processing • for auxiliary and control contacts solid finely stranded with core end processing • for auxiliary and control contacts solid finely stranded with core end processing	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715         Yes         M4         100 mm         67 mm         141 mm         Yes         Screw-type terminals         screw-type terminals         2x (1.5 2.5 mm²), 2x (2.5 6 mm²)         2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         2x (1 2.5 mm²), 2x (0.5 10 mm²)         1.x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)         1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)

main contacts	
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	2 2.5 N·m
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.5 0.6 N·m
terminals	
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	18 22 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	4.5 5.3 lbf-in
design of the thread of the connection screw	
for main contacts	M4
of the auxiliary and control contacts	M3
stripped length of the cable	mo
for main contacts	7 mm
for auxiliary and control contacts	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 contact from the front
Ambient conditions	
	1 000 m
installation altitude at height above sea level maximum	
ambient temperature	25 +60 °C
during operation	-25 +60 °C -55 +80 °C
during storage	
ectromagnetic compatibility	
conducted interference	
due to burst according to IEC 61000-4-4	2 kV / 5 kHz behavior criterion 2
• due to conductor-earth surge according to IEC 61000-4-5	2 kV behavior criterion 2
<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 61000-</li> </ul>	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1
4-6	The dBdv in the nequency range of to of third, behavior effection in
field-based interference according to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, behavior criterion 1
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharging / 8 kV air discharging, behavior criterion 2
conducted HF interference emissions according to CISPR11	Class A for industrial environment
field-bound HF interference emission according to CISPR11	Class B for the domestic, business and commercial environments
Short-circuit protection, design of the fuse link	
manufacturer's article number	
<ul> <li>of gS fuse for semiconductor protection at NH design usable</li> </ul>	<u>3NE1817-0</u>
<ul> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> </ul>	<u>5SE1363</u>
<ul> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> </ul>	<u>3NE1817-0</u>
<ul> <li>of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable</li> </ul>	<u>3NC1450</u>
<ul> <li>of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable</li> </ul>	<u>3NC2280</u>
manufacturer's article number	
<ul> <li>of NEOZED fuse usable</li> </ul>	5SE2335: These fuses have a smaller rated current than the semiconductor relays
`ortificatos/ annrovals	relays
Certificates/ approvals General Product Approval	
	Confirmation
	other



Special Test Certificate Type Test Certificates/Test Report **Confirmation** 



## 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=3RF2350-1AA45

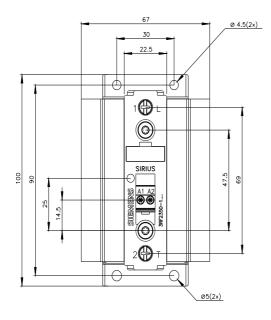
Cax online generator

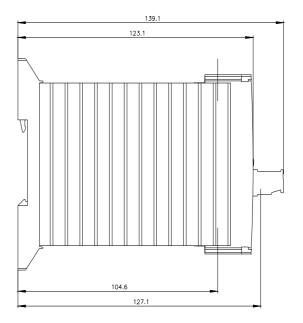
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2350-1AA45

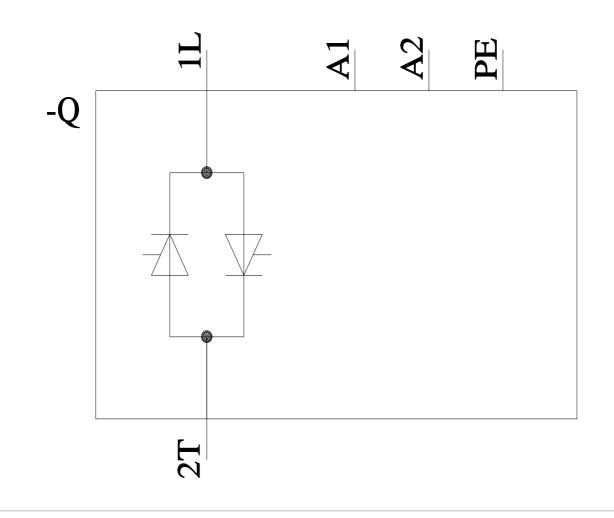
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2350-1AA45

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2350-1AA45&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2350-1AA45&lang=en</a>







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