# SIEMENS

### Data sheet

### 3RF2350-1BA26



Solid-state contactor 1-phase 3RF2 AC 15 / 25 A / 40  $^\circ\mathrm{C}$  48-600 V / 110-230 V AC Instantaneous switching

product brand name	SIRIUS		
product designation	solid-state contactor		
design of the product	single-phase		
product type designation	3RF23		
manufacturer's article number			
<ul> <li>_1 of the accessories that can be ordered</li> </ul>	3RF2900-3PA88		
<ul> <li>_2 of the accessories that can be ordered</li> </ul>	<u>3RF2950-0HA36</u>		
<ul> <li>_4 of the accessories that can be ordered</li> </ul>	<u>3RF2950-0GA36</u>		
product designation			
<ul> <li>_1 of the accessories that can be ordered</li> </ul>	terminal cover		
<ul> <li>_2 of the accessories that can be ordered</li> </ul>	power regulator		
<ul> <li>_4 of the accessories that can be ordered</li> </ul>	load monitoring		
General technical data			
product function	instantaneous switching		
power loss [W] for rated value of the current			
<ul> <li>at AC in hot operating state</li> </ul>	54 W		
<ul> <li>at AC in hot operating state per pole</li> </ul>	54 W		
<ul> <li>without load current share typical</li> </ul>	3.5 W		
insulation voltage rated value	600 V		
degree of pollution	3		
type of voltage			
<ul> <li>of the operating voltage</li> </ul>	AC		
<ul> <li>of the control supply voltage</li> </ul>	AC		
surge voltage resistance of main circuit rated value	6 kV		
protection class IP	IP20		
protection class IP on the front according to IEC 60529	IP20		
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		
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4		
Weight	0.449 kg		
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			
• at AC			

	40 000.1/		
— at 50 Hz rated value	48 600 V		
— at 60 Hz rated value	48 600 V		
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			
<ul> <li>at AC-51 rated value</li> </ul>	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>	25 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	1 600 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	AC		
control supply voltage 1 at AC			
• at 50 Hz	110 230 V		
• at 60 Hz	110 230 V		
control supply voltage frequency			
• 1 rated value	50 Hz		
• 2 rated value	60 Hz		
control supply voltage at AC			
<ul> <li>at 50 Hz full-scale value for signal&lt;0&gt; recognition</li> </ul>	40 V		
<ul> <li>at 60 Hz full-scale value for signal</li> </ul>	40 V		
control supply voltage			
at AC initial value for signal <1> detection	90 V		
symmetrical line frequency tolerance	5 Hz		
control current at minimum control supply voltage			
• at AC	2 mA		
control current at AC rated value	15 mA		
ON-delay time	40 ms		
OFF-delay time	40 ms; additionally max. one half-wave		
Auxiliary circuit			
type of switching contact	normally open contact (NO)		
number of NC contacts for auxiliary contacts			
number of NO contacts for auxiliary contacts	0		
number of CO contacts for auxiliary contacts	0		
Installation/ mounting/ dimensions			
	Vac		
fastening method side-by-side mounting	Yes		
fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715		
design of the thread of the screw for securing the equipment	M4		
height	100 mm		
width	67.5 mm		
depth	144.5 mm		
Connections/ Terminals			
product component removable terminal for auxiliary and control circuit	Yes		
type of electrical connection			
for main current circuit	screw-type terminals		
for auxiliary and control circuit	screw-type terminals		
type of connectable conductor cross-sections			
for main contacts			
- solid	2x (1.5 2.5 mm²), 2x (2.5 6 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²		

<ul> <li>for AWG cables for main contacts</li> </ul>	2x (14 10)			
connectable conductor cross-section for main contacts	2			
<ul> <li>solid or stranded</li> </ul>	1.5 6 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	1 10 mm <sup>2</sup>			
type of connectable conductor cross-sections				
for auxiliary and control contacts				
— solid	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)			
— finely stranded with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.0 m	וm²)		
<ul> <li>finely stranded without core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.0 m	וm²)		
<ul> <li>for AWG cables for auxiliary and control contacts</li> </ul>	1x (AWG 20 12)			
AWG number as coded connectable conductor cross section for main contacts	10 14			
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 terminals</li> </ul>	0.5 0.6 N·m			
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			
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3			
stripped length of the cable				
<ul> <li>for main contacts</li> </ul>	7 mm			
<ul> <li>for auxiliary and control contacts</li> </ul>	7 mm			
Electrical Safety				
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				
installation altitude at height above sea level maximum	1 000 m			
ambient temperature				
<ul> <li>during operation</li> </ul>	-25 +60 °C			
during storage	-55 +80 °C			
Electromagnetic compatibility				
conducted interference				
• due to burst according to IEC 61000-4-4	2 kV / 5 kHz behavior criterion 2			
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC</li> </ul>	2 kV behavior criterion 2 1 kV behavior criterion 2			
<ul> <li>61000-4-5</li> <li>due to high-frequency radiation according to IEC 61000-4-6</li> </ul>	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1			
4-6 field-based interference according to IEC 61000-4-3	80 MHz 1 GHz 10 V/m behavior criterion 1			
electrostatic discharge according to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, behavior criterion 1 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 a	and commercial envi	onments	
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>			
• of back-up R fuse link for semiconductor protection at NH design usable	<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>			
Approvals Certificates				

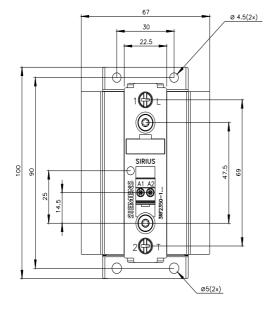


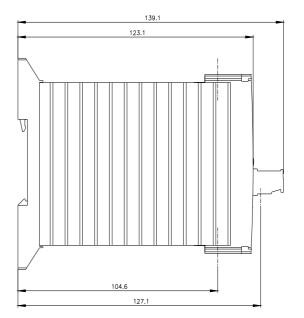
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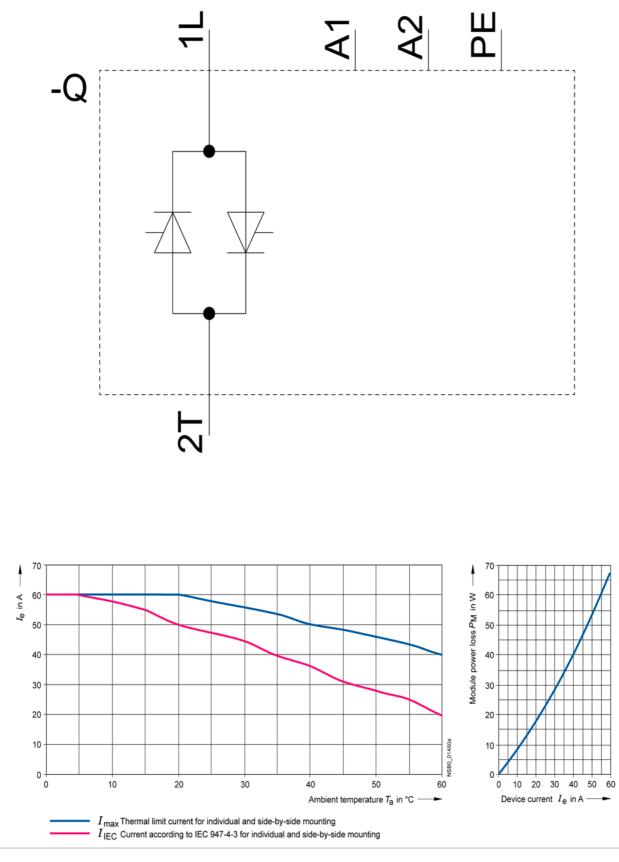
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF2350-1BA26

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

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