SIEMENS

Data sheet 3RF2350-1BA26



Solid-state contactor 1-phase 3RF2 AC 15 / 25 A / 40 °C 48-600 V / 110-230 V AC Instantaneous switching

product brand name product designation design of the product product type designation manufacturer's article number

- _1 of the accessories that can be ordered
- _2 of the accessories that can be ordered
- _4 of the accessories that can be ordered

product designation

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- _2 of the accessories that can be ordered
- · 4 of the accessories that can be ordered

SIRIUS

solid-state contactor

single-phase

3RF23

3RF2900-3PA88

3RF2950-0HA36

3RF2950-0GA36

terminal cover power regulator

load monitoring

General technical data

product function

power loss [W] for rated value of the current

- at AC in hot operating state
- at AC in hot operating state per pole
- without load current share typical

insulation voltage rated value

degree of pollution

type of voltage of the control supply voltage surge voltage resistance of main circuit rated value

shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 reference code according to IEC 81346-2

Substance Prohibitance (Date)

instantaneous switching

54 W

600 V

6 kV

2g

Main circuit

number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts

operating voltage at AC

- at 50 Hz rated value
- at 60 Hz rated value

operating frequency rated value

operating range relative to the operating voltage at AC

- at 50 Hz
- at 60 Hz

operational current

- at AC-51 rated value
- at AC-51 according to IEC 60947-4-3
- according to UL 508 rated value

54 W

3.5 W

AC

15g / 11 ms

Q

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0

48 ... 600 V

48 ... 600 V

50 ... 60 Hz

40 ... 660 V

40 ... 660 V

50 A

36 A

25 A

	F00 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
I2t value maximum	6 600 A²·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	
 at 50 Hz full-scale value for signal<0> recognition 	40 V
• at 60 Hz full-scale value for signal<0> recognition	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	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Installation/ mounting/ dimensions	
fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm
· ·	according to IEC 60715
side-by-side mounting	Yes
design of the thread of the screw for securing the	M4
equipment	400
height	100 mm
width	67.5 mm
depth	144.5 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit for a william and control circuit	screw-type terminals
for auxiliary and control circuit type of connectable conductor cross sections	screw-type terminals
type of connectable conductor cross-sections • for main contacts	
— solid	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), 1x 10 mm²
at AWG cables for main contacts	2x (14 10)
connectable conductor cross-section for main contacts	
 solid or stranded 	1.5 6 mm²
 solid or stranded finely stranded with core end processing 	1.5 6 mm² 1 10 mm²
 finely stranded with core end processing 	1.5 6 mm ² 1 10 mm ²
 finely stranded with core end processing type of connectable conductor cross-sections 	
 finely stranded with core end processing 	1 10 mm²
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary and control contacts solid 	1 10 mm ² 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary and control contacts solid finely stranded with core end processing 	1 10 mm ² 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary and control contacts solid finely stranded with core end processing finely stranded without core end processing 	1 10 mm ² 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary and control contacts solid finely stranded with core end processing 	1 10 mm ² 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)
finely stranded with core end processing type of connectable conductor cross-sections for auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded without core end processing	1 10 mm ² 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) 1x (AWG 20 12)

 for auxiliary and control contacts with screw-type terminals 	0.5 0.6 N·m		
tightening torque [lbf·in]			
for main contacts with screw-type terminals	18 22 lbf·in		
for auxiliary and control contacts with screw-type	4.5 5.3 lbf·in		
terminals	1.0 0.0 151 111		
design of the thread of the connection screw			
for main contacts	M4		
 of the auxiliary and control contacts 	M3		
stripped length of the cable			
for main contacts	7 mm		
 for auxiliary and control contacts 	7 mm		
afety related data			
protection class IP on the front according to IEC	IP20		
60529			
touch protection on the front according to IEC 60529	finger-safe, for vertical conta	ct from the front	
mbient conditions			
installation altitude at height above sea level maximum	1 000 m		
ambient temperature			
during operation	-25 +60 °C		
during storage	-55 +80 °C		
lectromagnetic 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	2 kV behavior criterion 2		
61000-4-5			
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV behavior criterion 2		
 due to high-frequency radiation according to IEC 61000-4-6 	140 dBuV in the frequency ra	ange 0.15 80 MHz,	behavior criterion 1
field-based interference according to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, be	havior 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 environ	ıment	
field-bound HF interference emission according to CISPR11	Class B for the domestic, bu	siness and commercia	al environments
hort-circuit protection, design of the fuse link			
manufacturer's article number			
 of gS fuse for semiconductor protection at NH design usable 	3NE1817-0		
 of full range R fuse link for semiconductor protection at cylindrical design usable 	<u>5SE1363</u>		
 of back-up R fuse link for semiconductor protection at NH design usable 	3NE1817-0		
 of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable 	<u>3NC1450</u>		
of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable	3NC2280		
Certificates/ approvals			
			Declaration of
General Product Approval		EMC	Conformity











Declaration of Conformity	Test Certificates	other	Railway
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Type Test Certificates/Test Report

Special Test Certificate

Confirmation



Vibration and Shock

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=3RF2350-1BA26

Cax online generator

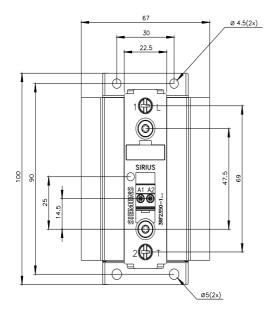
 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RF2350-1BA26}$

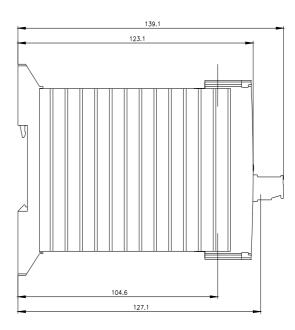
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

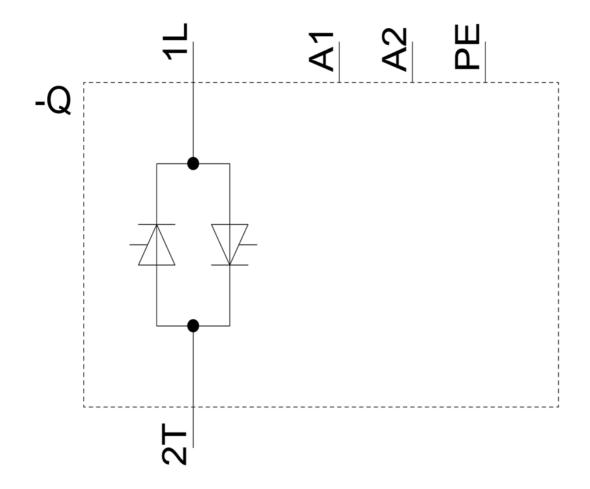
https://support.industry.siemens.com/cs/ww/en/ps/3RF2350-1BA26

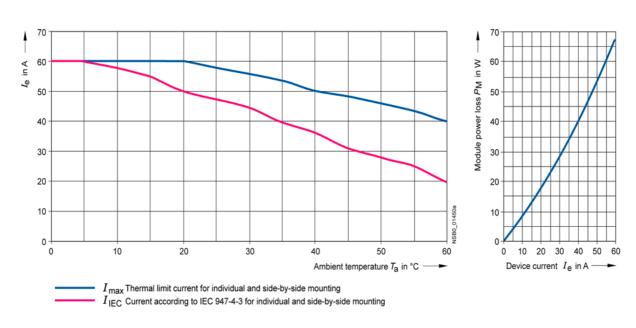
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2350-1BA26&lang=en









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