SIEMENS

Data sheet 3RF2350-3AA24



Solid-state contactor 1-phase 3RF2 AC 51 / 50 A / 40 °C 48-460 V / 110-230 V AC Ring cable connection

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

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

product designation

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SIRIUS

solid-state contactor

single-phase

3RF23

3RF2900-3PA88

3RF2950-0GA36

terminal cover

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)

zero-point switching

54 W

54 W

3.5 W

600 V

3

15q / 11 ms

07/01/2006

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

operational current minimum

rate of voltage rise at the thyristor for main contacts maximum permissible

AC

6 kV

2g Q

1

1

0

48 ... 460 V

48 ... 460 V

50 ... 60 Hz

40 ... 506 V

40 ... 506 V

50 A

36 A

45 A

500 mA

1 000 V/µs

blocking voltage at the thyristor for main contacts	1 200 V
maximum permissible	
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	440 000 V
• at 50 Hz	110 230 V
at 60 Hz control supply voltage frequency	110 230 V
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 control current at AC rated value.	2 mA 15 mA
control current at AC rated value ON-delay time	
OFF-delay time	40 ms; additionally max. one half-wave 40 ms; additionally max. one half-wave
Auxiliary circuit	To me, additionally man, one hall mayo
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 equipment	M4
and the second s	
height	100 mm
• •	100 mm 67 mm
height	
height width	67 mm
height width depth Connections/ Terminals type of electrical connection	67 mm 141 mm
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height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	67 mm 141 mm
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Safety related data	
protection class IP on the front according to IEC 60529	IP00; IP20 with cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
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	
 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
 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 range 0.15 80 MHz, behavior criterion 1
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	
 of gS fuse for semiconductor protection at NH design usable 	<u>3NE1817-0</u>
 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
manufacturer's article number	
• of NEOZED fuse usable	<u>5SE2335</u> ; These fuses have a smaller rated current than the semiconductor relays

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity



Confirmation









Declaration of Conformity

Test Certificates

other



Type Test Certificates/Test Report

Confirmation



Further information

Information on the packaging

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

 $Information-\ and\ Download center\ (Catalogs,\ Brochures,...)$

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

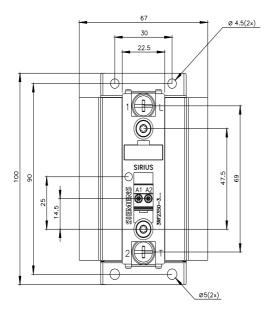
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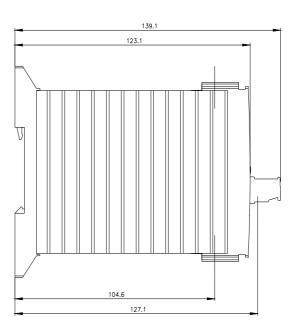
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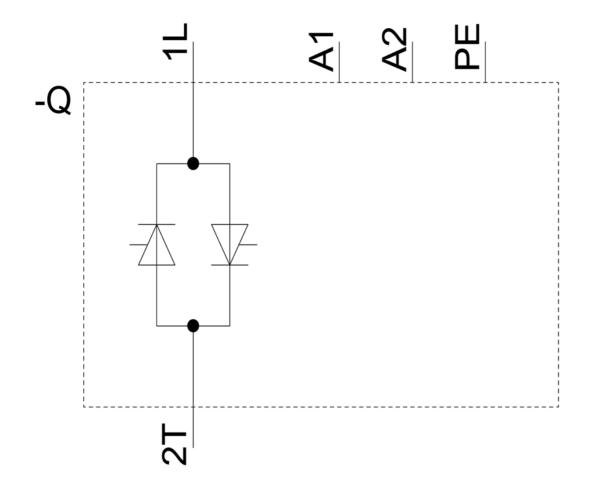
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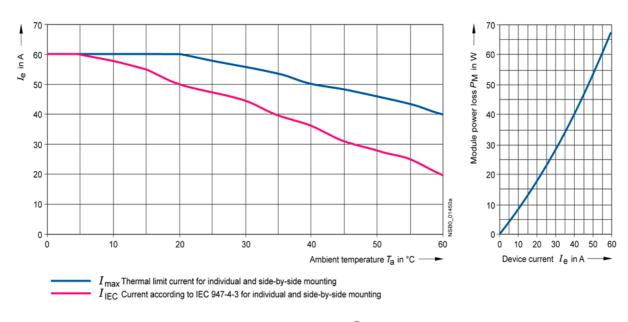
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF2350-3AA24

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RF2350-3AA24&lang=en









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