SIEMENS

Data sheet 3RF2350-1AA04



Solid-state contactor 1-phase 3RF2 AC 51 / 50 A / 40 °C 48-460 V / 24 V DC screw terminal

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

- _1 of the accessories that can be ordered
- _3 of the accessories that can be ordered
- _4 of the accessories that can be ordered

product designation

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- · 4 of the accessories that can be ordered

SIRIUS

solid-state contactor

single-phase

3RF23

3RF2900-3PA88

3RF2900-0EA18

3RF2950-0GA16

terminal cover

converter

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

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

0.4 W

DC

15g / 11 ms

Q

07/01/2006

1 1

0

48 ... 460 V 48 ... 460 V

50 ... 60 Hz

40 ... 506 V 40 ... 506 V

50 A

36 A

45 A

operational current minimum	500 mA
rate of voltage rise at the thyristor for main contacts	1 000 V/μs
maximum permissible	
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 ² -s
	0 000 A ·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	15 24 V
control supply voltage	
• at DC initial value for signal <1> detection	15 V
at DC full-scale value for signal <0> recognition	5 V
control current at minimum control supply voltage	3 V
	40 4
• at DC	13 mA
control current at DC rated value	15 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
Installation/ mounting/ dimensions	
fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715
- cide by cide magnitude	
side-by-side mounting	Yes
design of the thread of the screw for securing the	M4
equipment	100 mm
height	100 mm
height width	67 mm
height width depth	
height width depth Connections/ Terminals	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 screw-type terminals
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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
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	
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 	3NE1817-0
 of full range R fuse link for semiconductor protection at cylindrical design usable 	5SE1363
 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 	3NC1450
 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

Railway



Type Test Certificates/Test Report

Special Test Certificate

Confirmation



Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RF2350-1AA04

Cax online generator

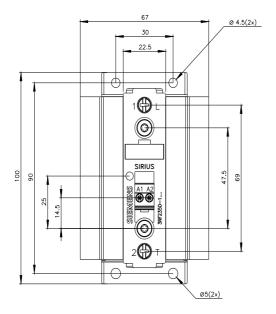
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2350-1AA04

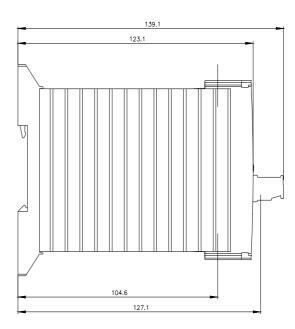
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

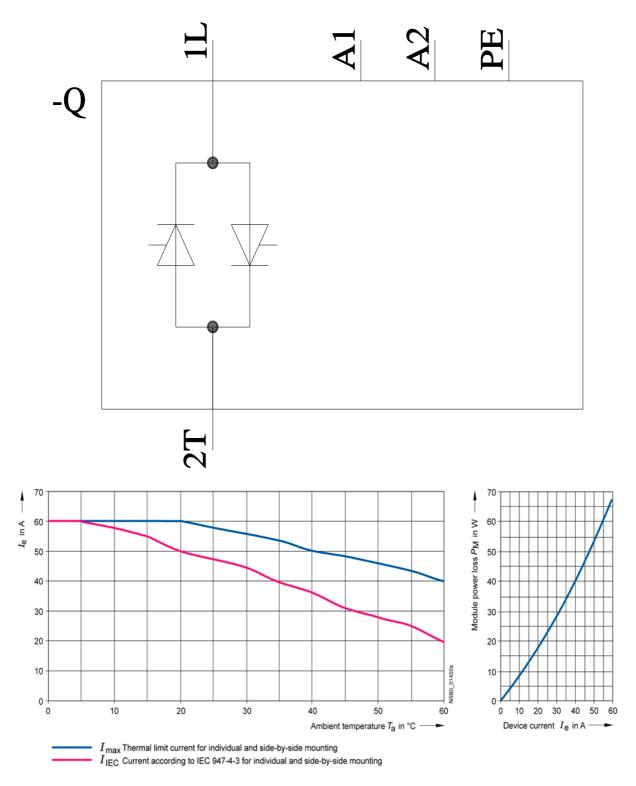
https://support.industry.siemens.com/cs/ww/en/ps/3RF2350-1AA04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2350-1AA04&lang=en







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