SIEMENS

Data sheet 3RF2150-1BA04



Semiconductor relay, 1-phase 3RF2 Overall width 22.5 mm, 50 A 48-460 V / 24 V DC screw terminal Instantaneous switching

product brand name	SIRIUS
product designation	solid-state relay
design of the product	single-phase
product type designation	3RF21
manufacturer's article number	
_1 of the accessories that can be ordered	3RF2900-3PA88
_2 of the accessories that can be ordered	3RF2950-0HA16
_3 of the accessories that can be ordered	3RF2900-0EA18
_4 of the accessories that can be ordered	3RF2950-0GA16
_5 of the accessories that can be ordered	3RF2920-0FA08
product designation	
_1 of the accessories that can be ordered	terminal cover
_2 of the accessories that can be ordered	power regulator
_3 of the accessories that can be ordered	converter
_4 of the accessories that can be ordered	load monitoring
_5 of the accessories that can be ordered	load monitoring, basis
General technical data	
product function	instantaneous switching
power loss [V·A] maximum	66 VA
power loss [W] for rated value of the current	
 at AC in hot operating state 	66 W
 at AC in hot operating state per pole 	66 W
without load current share typical	0.4 W
insulation voltage rated value	600 V
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	15g / 11 ms
vibration resistance according to IEC 60068-2-6	2g
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	K
reference code according to EN 61346-2	Q
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
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

Sprice of voltage of the operating voltage	tune of voltage of the analytics voltage	AC
### AGC	type of voltage of the operating voltage	AC
operating frequency rated value 50 60 Hz relative symmetrical tolerance of the operating frequency 10 % 10		
relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC # at 50 Hz # at 60 Hz # 40 566 V #		
operating range relative to the operating voltage at AC • all 80 Hz • all 80 Hz • all 80 Hz • all 80 St redet value • all 80-51 redet value • all 80-51 redet value • all 80-51 redet value • according to UI. 500 rated value • 50 A • according to UI. 500 rated value • 50 A • according to UI. 500 rated value • 50 A • according to UI. 500 rated value • 50 A • according to UI. 500 rated value • 50 A • action of the sea at the thyristor for main contacts maximum permissibilo reverse current of the thyristor • derating temperature • 40 °C • derating temperature • 40 °C • control supply voltage • 1 BC • related value maximum • 1 800 At-8 Control current at ordination of signal <1> detection • 15 — 24 V • control supply voltage • at DC • 10 C rules are value • 10 C rule		
** 150 Hz	relative symmetrical tolerance of the operating frequency	10 %
• al 80 Hz operational current • al AC-51 midel value • according to UL 508 rated value • bo A operational current minimum poperational current minimum poperational current minimum facts of valuage at the thyristor for main contacts maximum permissible • according to the control of the division of the divis	operating range relative to the operating voltage at AC	
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* at AC 51 rated value * 50 A ampactly maximum	● at 60 Hz	40 506 V
* eccording to UL 508 rated value ampacity maximum 50 A ampacity maximum 500 mA rate of voltage rise at the thyristor for main contacts maximum permissible blocking voltage at the thyristor for main contacts maximum permissible reverse current of the thyristor 40 °C surge current resistance rated value 600 A Rit value maximum 1800 A²s Control circuit Control value maximum permissible * rated value maximum 1800 A²s Control circuit Control Vype of voltage of the control supply voltage * rated value maximum permissible * a DC initial value for signal <10 detection * a DC Discial circuit of supply voltage * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection * at DC initial value for signal <10 detection	operational current	
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Surge current resistance rated value 600 A Izt value maximum 1800 A²s Control Circuit/ Control Type of voltage of the control supply voltage DC control supply voltage 1 at DC • rated value maximum permissible 30 V • at DC initial value for signal <1> detection 15 V • at DC initial value for signal <1> detection 5 V control current at minimum control supply voltage • at DC initial value for signal <1> detection 5 V control current at minimum control supply voltage • at DC Control current at DC fall-scale value for signal <1> recognition 5 V control current at DC Tated value 15 mA ONI-delay time 1 ms OFF-delay time 1 ms OFF-delay time 1 ms, additionally max. one half-wave Auxiliary circuit 10 Contacts for auxiliary contacts 0 0 number of NC contacts for auxiliary contacts 0 0 number of NC contacts for auxiliary contacts 0 0 number of CO contacts for auxiliary contacts 10 0 number of CO contacts for auxiliary contacts 10 0 fastening method side-by-side mounting 19 Yes fastening method of the screw for securing the equipment 11 tightening torque of fixing screw maximum 13 bFin 10 holght 88 mm tightening torque of fixing screw maximum 13 bFin 10 holght 88 mm width 22 5 mm depth Connection 48 mm Connections/Terminals Type of electrical connection 10 for auxiliary and 10 contacts 10 connection 10 connectio	<u> </u>	40 °C
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Auxillary circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of NO contacts for auxiliary contacts num	ON-delay time	1 ms
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts fastening method side-by-side mounting fastening method design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque of fixing screw maximum 1.5 N·m tightening torque [lbf·in] of fixing screw maximum 13 lbf·in height 85 mm width 22.5 mm 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 2x (1.4 10)	OFF-delay time	1 ms; additionally max. one half-wave
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts fastening method side-by-side mounting fastening method of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum ight width 22.5 mm depth connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection of or auxiliary and control circuit screw-type terminals for auxiliary and control circuit type of connectable conductor cross-sections of or main contacts - solid - solid - finely stranded with core end processing of total side of the screw fixing yes connections (2x (1.5 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² a (1.1 25 mm²), 2x (2.5 6 mm²), 1x 10 mm² a (1.1 25 mm²), 2x (2.5 6 mm²), 1x 10 mm² a (1.1 25 mm²), 2x (2.5 6 mm²), 1x 10 mm² a (1.1 25 mm²), 2x (2.5 6 mm²), 1x 10 mm² a (1.1 25 mm²), 2x (2.5 6 mm²), 1x 10 mm² a (1.1 25 mm²), 2x (2.5 6 mm²), 1x 10 mm² a (1.1 25 mm²), 2x (2.5 6 mm²), 1x 10 mm² a (1.1 25 mm²), 2x (2.5 6 mm²), 1x 10 mm²	Auxiliary circuit	
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Commodation Conductor of Conduction for main contacts	connectable conductor cross-section for main contacts	

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Approvals Certificates

General Product Approval

EMV



Confirmation









Test Certificates other Railway Environment

Type Test Certificates/Test Report

Special Test Certificate

Confirmation



Special Test Certificate

Environmental Confirmations

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=3RF2150-1BA04

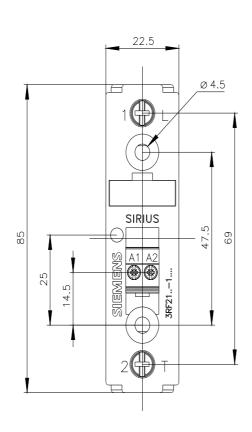
Cax online generator

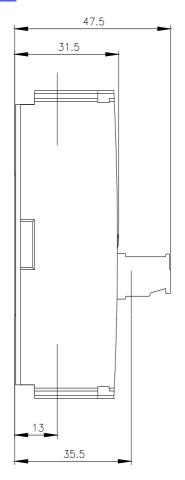
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2150-1BA04

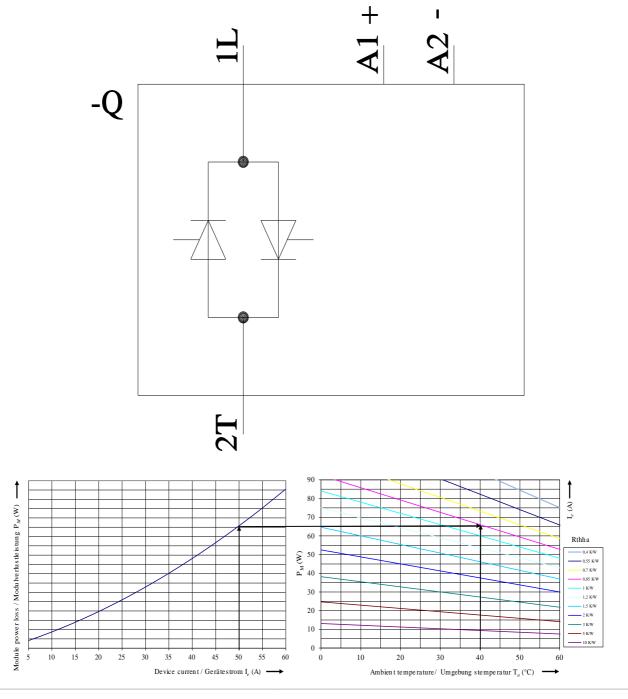
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

https://support.industry.siemens.com/cs/ww/en/ps/3RF2150-1BA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2150-1BA04&lang=en







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