SIEMENS

Data sheet 3RF2350-3AA04



Solid-state contactor 1-phase 3RF2 AC 51 / 50 A / 40 $^{\circ}\text{C}$ 48-460 V / 24 V DC Ring cable connection

product brand name	SIRIUS
	311103
product designation	solid-state contactor
design of the product	single-phase
product type designation	3RF23
manufacturer's article number	
_1 of the accessories that can be ordered	3RF2900-3PA88
_3 of the accessories that can be ordered	3RF2900-0EA18
_4 of the accessories that can be ordered	3RF2950-0GA16
product designation	
_1 of the accessories that can be ordered	terminal cover
_3 of the accessories that can be ordered	converter
_4 of the accessories that can be ordered	load monitoring
General technical data	
product function	zero-point switching
power loss [W] for rated value of the current	
 at AC in hot operating state 	54 W
 at AC in hot operating state per pole 	54 W
without load current share typical	0.4 W
insulation voltage rated value	600 V
degree of pollution	3
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	К
reference code according to EN 61346-2	Q
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2006
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
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 60 Hz rated value operating frequency rated value operating frequency rated value operating requency rated value 40 506 V • 16 00 Hz • 16 0	of EO Ha roted value	40 460 \/
operating frequency rated value operating range relative to the operating voltage at AC	— at 50 Hz rated value	48 460 V
operating range relative to the operating voltage at AC * 150 Hz * 160 Hz		
and 10 Hz beta due to the total due to		50 60 Hz
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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 DIN cable lug for main contacts • for DIN cable lug for main contacts • for auxiliary and control contacts • for auxiliary and control contacts - solid - finely stranded with core end processing • for AWG cables for auxiliary and control contacts type of connectable for auxiliary and control contacts 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)		
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 for auxiliary and control circuit type of connectable conductor cross-sections for main contacts for JIS cable lug for DIN cable lug for main contacts DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 type of connectable conductor cross-sections for auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing for AWG cables for auxiliary and control contacts 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 		Ring cable lug connection
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 for DIN cable lug for main contacts bype of connectable conductor cross-sections for auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing for AWG cables for auxiliary and control contacts tightening torque DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (AWG 20 12)		IIS C 2005 D 2 5 5 5 5 0 5 44 5
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— finely stranded without core end processing • for AWG cables for auxiliary and control contacts tightening torque 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (AWG 20 12)		
• for AWG cables for auxiliary and control contacts 1x (AWG 20 12) tightening torque		
tightening torque		
	<u> </u>	1x (AWG 20 12)
• for main contacts with screw-type terminals 2 2.5 N·m	- for main contacts with corour type torreinals	2 2.5 N⋅m

 for auxiliary and control contacts with screw-type terminals 	0.5 0.6 N·m
tightening torque [lbf·in]	
 for auxiliary and control contacts with screw-type terminals 	4.5 5.3 lbf-in
design of the thread of the connection screw	
• for main contacts	M5
of the auxiliary and control contacts	M3
stripped length of the cable	
for main contacts	10 mm
for auxiliary and control contacts	10 mm
Electrical Safety	
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 	<u>3NE1817-0</u>
 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	5SE2335: These fuses have a smaller rated current than the semiconductor relays
Approvals Certificates	

General Product Approval





Confirmation







EMV

Test Certificates other Environment

Type Test Certificates/Test Report

Confirmation



Environmental Con-firmations

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=3RF2350-3AA04

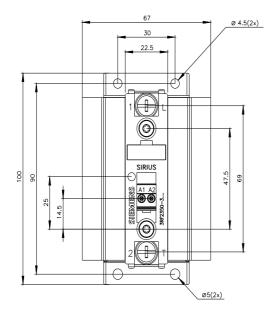
Cax online generator

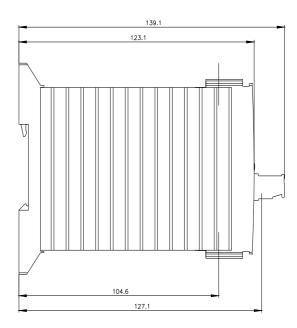
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2350-3AA04

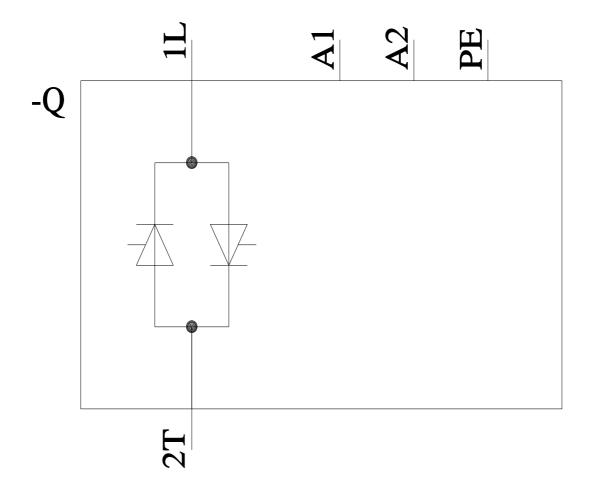
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

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

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2350-3AA04&lang=en







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