SIEMENS

Data sheet 3RF3916-0JA13-1KK0

Siemens EcoTech



heating current monitoring current range 16 A / 40 °C 110 … 230 V / 24 V AC/DC
remote teach with standby mode for semiconductor relay/contactor

product brand name	SIRIUS
product designation	heating current monitoring
design of the product	with standby
product type designation	3RF39
manufacturer's article number	
● _1 of the accessories that can be ordered	3RF2900-0RA88
product designation	
● _1 of the accessories that can be ordered	sealable end cover
General technical data	
product function	for solid-state relays / contactors 3RF31 and 3RF33
power loss [W] for rated value of the current	
● without load current share typical	1 W
type of calculation of power loss current-dependent	linear
insulation voltage rated value	600 V
degree of pollution	3
surge voltage resistance of main circuit rated value	3 kV
protection class IP	IP20
protection class IP on the front according to IEC 60529	IP20
shock resistance according to IEC 60068-2-27	15 g / 11 ms
vibration resistance according to IEC 60068-2-6	2 g
reference code according to IEC 81346-2	B
Substance Prohibitance (day/month/year)	03/07/2024
SVHC substance name	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1
Net Weight	0.129 kg
Main circuit	
type of voltage of the operating voltage	AC
operating voltage at AC	
● at 50 Hz rated value	110 ... 230 V
● at 60 Hz rated value	110 ... 230 V
operating frequency rated value	50 ... 60 Hz
relative symmetrical tolerance of the operating frequency	10 %
operating range relative to the operating voltage at AC	

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● at 50 Hz	93.5 ... 253 V
● at 60 Hz	93.5 ... 253 V
operational current	
● at AC-51 rated value	16 A
derating temperature	40 °C
teach range current initial value	0.42 A
teach range current full-scale value	16 A
partial load for load monitoring	0.42 A
Control circuit/ Control	
type of voltage	AC/DC
control supply voltage at AC	
● at 50 Hz rated value	24 V
● at 50 Hz rated value	20.5 ... 26.5 V
● at 60 Hz rated value	24 V
● at 60 Hz rated value	20.5 ... 26.5 V
control supply voltage at AC	
● at 50 Hz full-scale value for signal<0> recognition	5 V
● at 60 Hz full-scale value for signal<0> recognition	5 V
control supply voltage at DC rated value	24 V
control supply voltage at DC rated value	18 ... 30 V
control supply voltage at DC full-scale value for signal<0> recognition	5 V
supply voltage frequency for auxiliary and control circuit rated value	50 ... 60 Hz
symmetrical line frequency tolerance	5 Hz
control current at minimum control supply voltage	
● at AC	2 mA
● at DC	2 mA
control current at AC rated value	40 mA
control current at DC rated value	40 mA
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
Installation/ mounting/ dimensions	
fastening method side-by-side mounting	Yes
fastening method	clip-on
height	111.5 mm
width	45 mm
depth	69.5 mm
Connections/ Terminals	
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
● for auxiliary and control contacts	
— solid	1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1 mm²)
— finely stranded with core end processing	1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1 mm²)
— finely stranded without core end processing	1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1 mm²)
● for AWG cables for auxiliary and control contacts	1x (20 ... 12)
tightening torque 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 of the auxiliary and control contacts	M3
stripped length of the cable for auxiliary and control contacts	7 mm
Electrical Safety	
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

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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
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

Approvals Certificates

Environment	General Product Approval

Environmental Confirmations

EMV	other

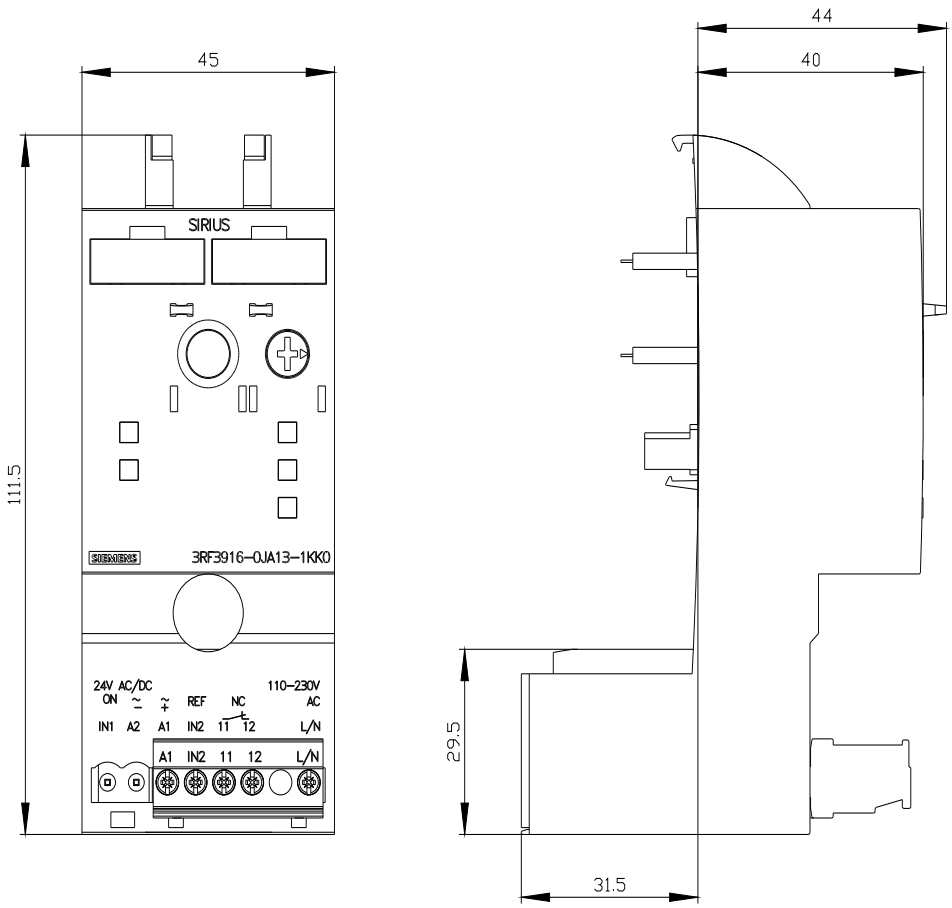
Confirmation

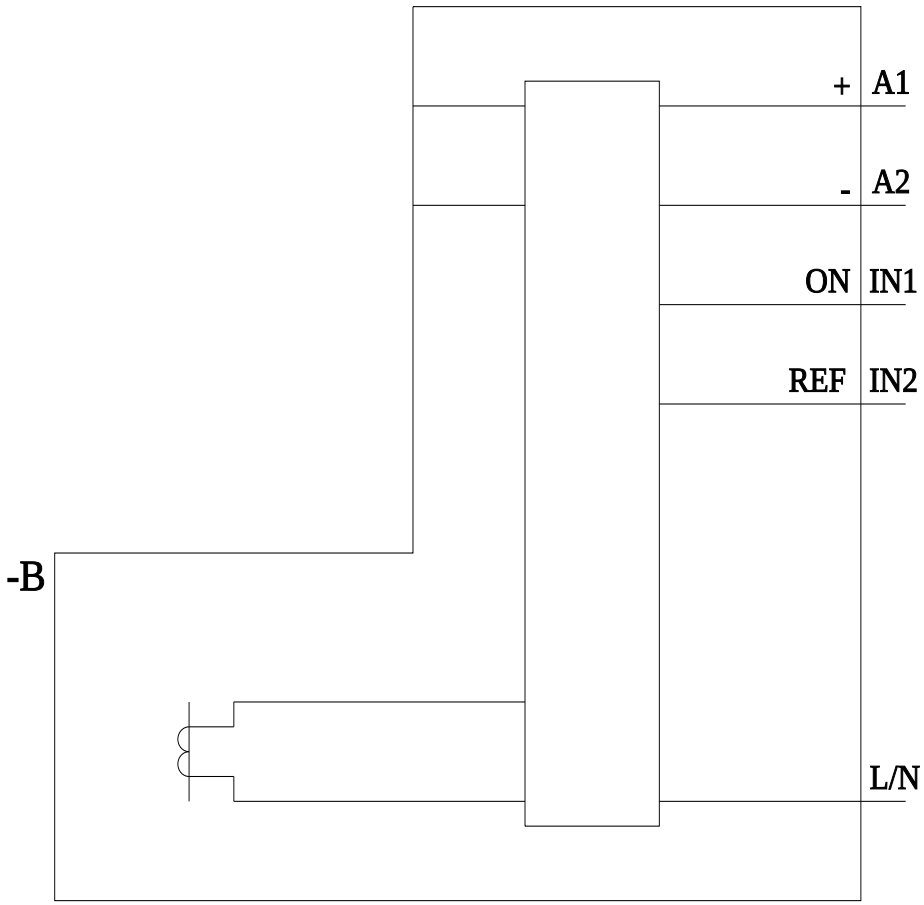
Confirmation

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
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=3RF3916-0JA13-1KK0
Cax online generator
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF3916-0JA13-1KK0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RF3916-0JA13-1KK0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF3916-0JA13-1KK0&lang=en

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