SIEMENS

Data sheet

3RF2916-0JA13-1KK0

	heating current monitoring current range 16 A / 40 °C 110 230 V 24 V AC/DC remote teach/without control connector with standby mode for semiconductor relay / contactor
needuct brand name	SIRIUS
product brand name product designation	
manufacturer's article number	heating current monitoring
	20000000000
 _1 of the accessories that can be ordered 	<u>3RF2900-0RA88</u>
 product designation _1 of the accessories that can be ordered 	sealable end cover
General technical data	
	polid state relay / calid state contrates 2052 with standby
product function	solid-state relay / solid-state contactor 3RF2 with standby
power loss [W] for rated value of the current	4 10/
without load current share typical	1 W 600 V
insulation voltage rated value degree of pollution	3
surge voltage resistance of main circuit rated value	2.5 kV
shock resistance according to IEC 60068-2-27	15g / 11 ms
vibration resistance according to IEC 60068-2-6	2g NC contact
design of the switching function	B
reference code according to IEC 81346-2	05/01/2012
Substance Prohibitance (Date)	05/01/2012
Main circuit	
number of poles for main current circuit	0
number of NO contacts for main contacts	0
number of NC contacts for main contacts	0
type of voltage	AC/DC
operating voltage at AC	440 000 1/
 at 50 Hz rated value at 60 Hz rated value 	110 230 V 110 230 V
operating frequency rated value	50 60 Hz
relative symmetrical tolerance of the operating	10 %
frequency	
operating range relative to the operating voltage at AC	
● 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
Control circuit/ Control	
type of voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	20.5 26.5 V
• at 60 Hz rated value	20.5 26.5 V
control supply voltage 1 at AC	

 at 50 Hz rated value 	24 V
 at 60 Hz rated value 	24 V
control supply voltage at DC rated value	18 30 V
control supply voltage 1	
 at DC rated value 	24 V
• at DC	24 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 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
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Installation/ mounting/ dimensions	
fastening method	clip-on
side-by-side mounting	Yes
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 1.0 mm²)
 finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
 finely stranded without core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
 at AWG cables for auxiliary and control contacts 	1x (AWG 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
Safety related data	
Safety related data protection class IP on the front according to IEC 60529	IP20
protection class IP on the front according to IEC	IP20 finger-safe, for vertical contact from the front
protection class IP on the front according to IEC 60529	
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Ambient conditions	finger-safe, for vertical contact from the front
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Ambient conditions installation altitude at height above sea level maximum	finger-safe, for vertical contact from the front
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Ambient conditions installation altitude at height above sea level maximum ambient temperature	finger-safe, for vertical contact from the front 1 000 m
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation	finger-safe, for vertical contact from the front 1 000 m -25 +60 °C
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage	finger-safe, for vertical contact from the front 1 000 m -25 +60 °C
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage Electromagnetic compatibility	finger-safe, for vertical contact from the front 1 000 m -25 +60 °C
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage Electromagnetic compatibility conducted interference	finger-safe, for vertical contact from the front 1 000 m -25 +60 °C -55 +80 °C
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage Electromagnetic compatibility conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC	finger-safe, for vertical contact from the front 1 000 m -25 +60 °C -55 +80 °C 2 kV / 5 kHz behavior criterion 2
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage Electromagnetic compatibility conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC	finger-safe, for vertical contact from the front 1 000 m -25 +60 °C -55 +80 °C 2 kV / 5 kHz behavior criterion 2 2 kV behavior criterion 2

electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11

field-bound HF interference emission according to CISPR11

4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment

Class B for the domestic, business and commercial environments

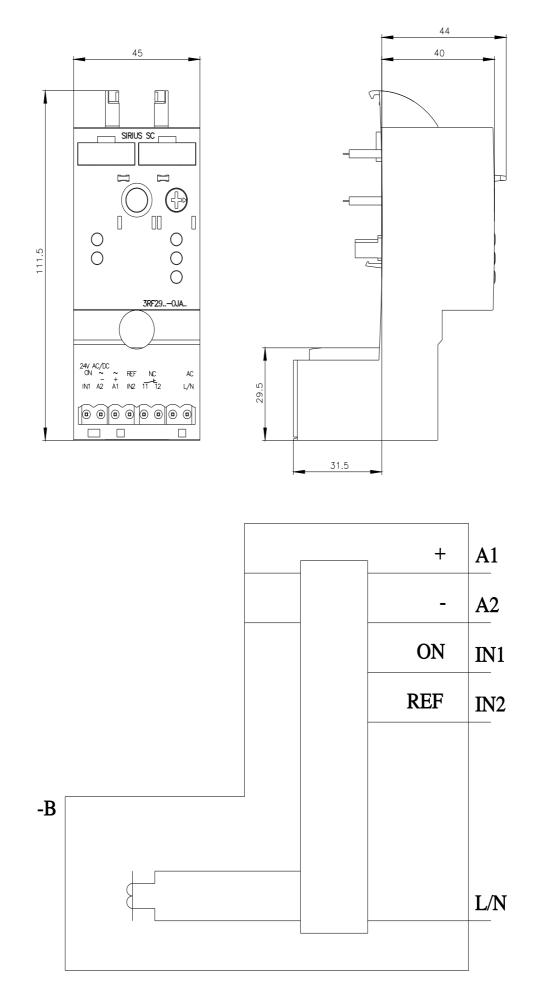
Certificates/ approv	vals				
General Product	Approval			EMC	Declaration of Conformity
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Declaration of Conformity	Test Certificates	other			
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2916-0JA13-1KK0&lang=en



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