

Load monitoring basis Current range 6 A / 40 °C Control voltage 24 V
DC for semiconductor relay / contactor



product brand name	SIRIUS
product designation	load monitoring, basis
manufacturer's article number	
<ul style="list-style-type: none"> • _1 / of the accessories that can be ordered 	3RF2900-0RA88
product designation	
<ul style="list-style-type: none"> • _1 / of the accessories that can be ordered 	sealable end cover

General technical data

product function	solid-state relay / solid-state contactor 3RF2
insulation voltage	
<ul style="list-style-type: none"> • rated value 	600 V
degree of pollution	3
protection class IP	IP20
shock resistance / acc. to IEC 60068-2-27	15g / 11 ms
vibration resistance / acc. to IEC 60068-2-6	2g
reference code / acc. to DIN EN 81346-2	B

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

operating frequency / rated value	50 ... 60 Hz
relative symmetrical tolerance / of the operating frequency	10 %
operating current	
• at AC-51 / rated value	6 A
derating temperature	40 °C

Control circuit/ Control

control supply voltage / 1	
• at DC	24 V
control supply voltage	
• at DC / full-scale value for signal<0> recognition	5 V
control current / at minimum control supply voltage	
• at DC	2 mA
control current / at DC / rated value	25 mA
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

mounting type	clip-on
• side-by-side mounting	Yes
height	101.5 mm
width	22.5 mm
depth	67 mm

Connections/ Terminals

type of electrical connection	
• for auxiliary and control current circuit	screw-type terminals
type of connectable conductor cross-sections	
• for auxiliary and control contacts	
— solid	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.0 mm ²)
— finely stranded / with core end processing	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.0 mm ²)
— finely stranded / without core end processing	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.0 mm ²)
• at AWG conductors / 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	

<ul style="list-style-type: none"> of the auxiliary and control contacts 	M3
wire stripping length / of the cable	
<ul style="list-style-type: none"> for auxiliary and control contacts 	7 mm






Ambient conditions

installation altitude / at height above sea level / maximum	1 000 m
ambient temperature	
<ul style="list-style-type: none"> during operation 	-25 ... +60 °C
<ul style="list-style-type: none"> during storage 	-55 ... +80 °C

Electromagnetic compatibility

conducted interference	
<ul style="list-style-type: none"> due to burst / acc. to IEC 61000-4-4 	2 kV / 5 kHz behavior criterion 2
<ul style="list-style-type: none"> due to conductor-earth surge / acc. to IEC 61000-4-5 	2 kV behavior criterion 2
<ul style="list-style-type: none"> due to conductor-conductor surge / acc. to IEC 61000-4-5 	1 kV behavior criterion 2
<ul style="list-style-type: none"> due to high-frequency radiation / acc. to IEC 61000-4-6 	140 dBuV in the frequency range 0.15 ... 80 MHz, behavior criterion 1
electrostatic discharge / acc. to IEC 61000-4-2	4 kV contact discharging / 8 kV air discharging, behavior criterion 2
conducted HF-interference emissions / acc. to CISPR11	Class A for industrial environment
field-bound HF-interference emission / acc. to CISPR11	Class B for the domestic, business and commercial environments

Certificates/ approvals

General Product Approval		EMC	Declaration of Conformity	
				
CSA	UL		RCM	EG-Konf.

[Miscellaneous](#)

Test Certificates	other
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[Type Test Certificates/Test Report](#)

[Confirmation](#)

Further information

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=3RF2906-0FA08>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2906-0FA08>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RF2906-0FA08>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2906-0FA08&lang=en

