



load monitoring basis current range 20 A / 40 °C control voltage 24 V DC output NO for semiconductor relay/contactors

product brand name	SIRIUS
product designation	load monitoring
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
product feature	basic
power loss [W] for rated value of the current	
• without load current share typical	0.6 W
insulation voltage rated value	600 V
degree of pollution	3
protection class IP	IP20
protection class IP on the front according to IEC 60529	IP20
shock resistance according to IEC 60068-2-27	15g / 11 ms
vibration resistance according to IEC 60068-2-6	2g
reference code according to IEC 81346-2	B
Substance Prohibitance (Date)	03/07/2024
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5
Net Weight	0.068 kg
Switching Function	
design of the switching function	transistor
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	DC
type of voltage of the operating voltage	AC
operating frequency rated value	50 ... 60 Hz
relative symmetrical tolerance of the operating frequency	10 %
operational current	
• at AC-51 rated value	20 A
derating temperature	40 °C
Control circuit/ Control	
type of voltage	DC

control supply voltage at DC rated value	24 V		
control supply voltage at DC rated value	18 ... 30 V		
control supply voltage 1 at DC rated value	24 V		
control supply voltage 1 at DC final rated value	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		
Auxiliary circuit			
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			
fastening method side-by-side mounting	Yes		
fastening method	clip-on		
height	101.5 mm		
width	22.5 mm		
depth	67 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 — finely stranded with 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 mm²) 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1 mm²) 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1 mm²) 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			
protection class IP on the front according to IEC 60529	IP20		
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 • during storage	-25 ... +60 °C -55 ... +80 °C		
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 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6	2 kV / 5 kHz behavior criterion 2 2 kV behavior criterion 2 1 kV behavior criterion 2 140 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			
General Product Approval	EMV	other	Environment



[Confirmation](#)



Environment

[Environmental Confirmations](#)

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=3RF3920-0FA08>

Cax online generator

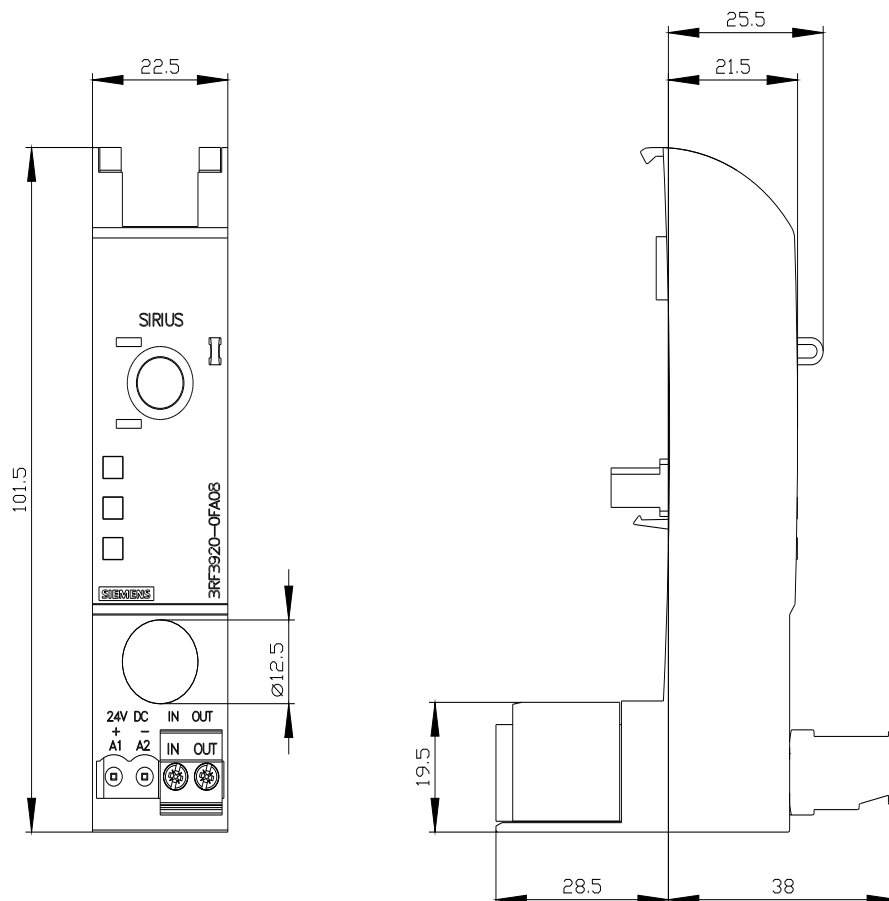
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF3920-0FA08>

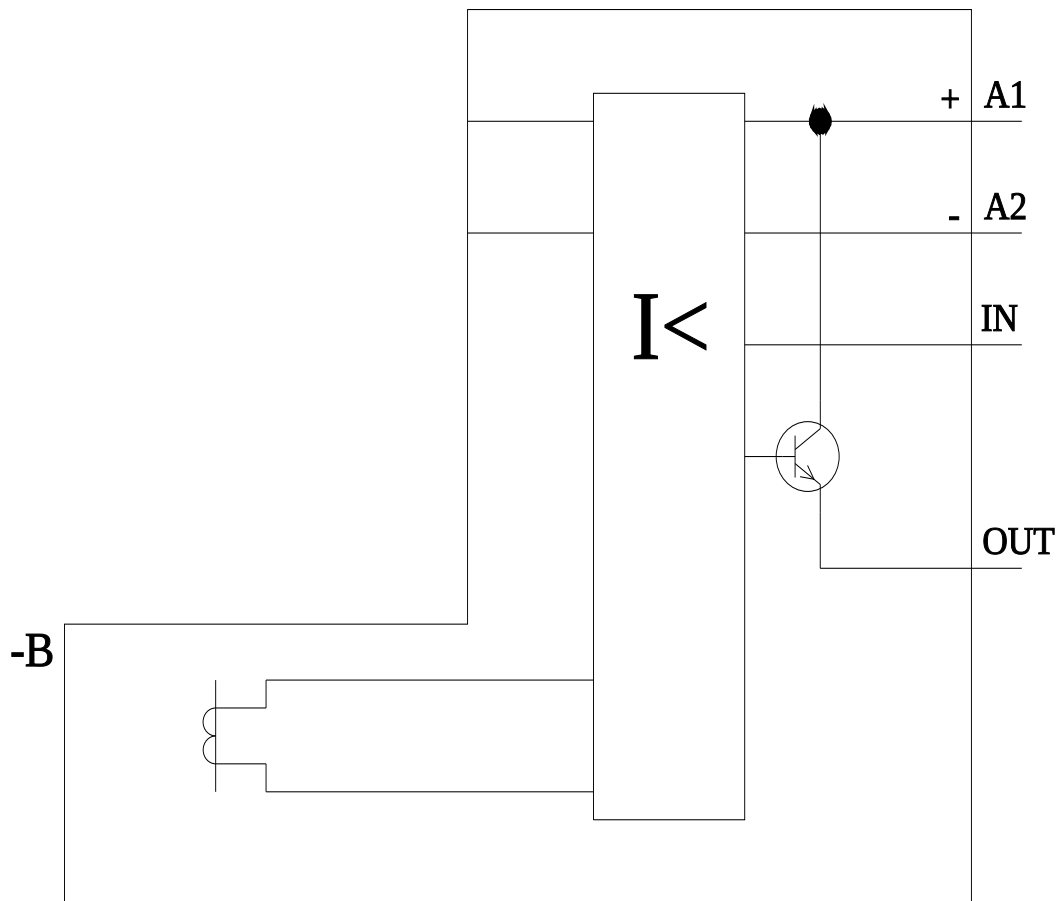
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RF3920-0FA08>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF3920-0FA08&lang=en





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