



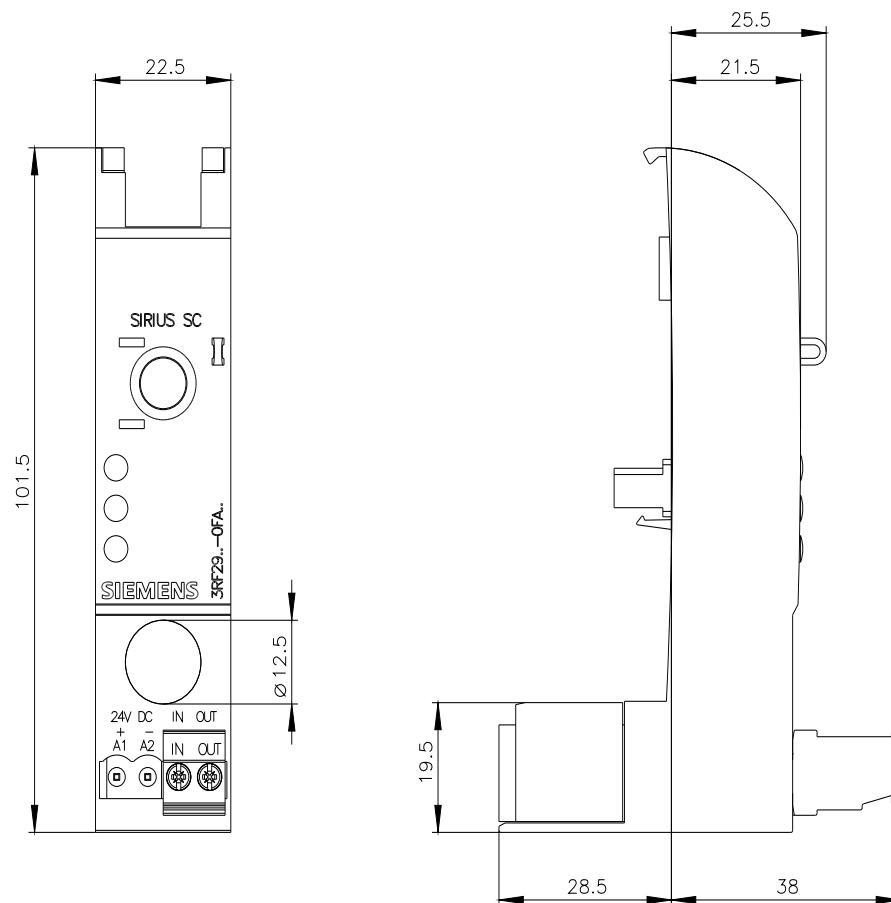
load monitoring basis current range 6 A / 40 °C control voltage 24 V DC for semiconductor relay / contactor

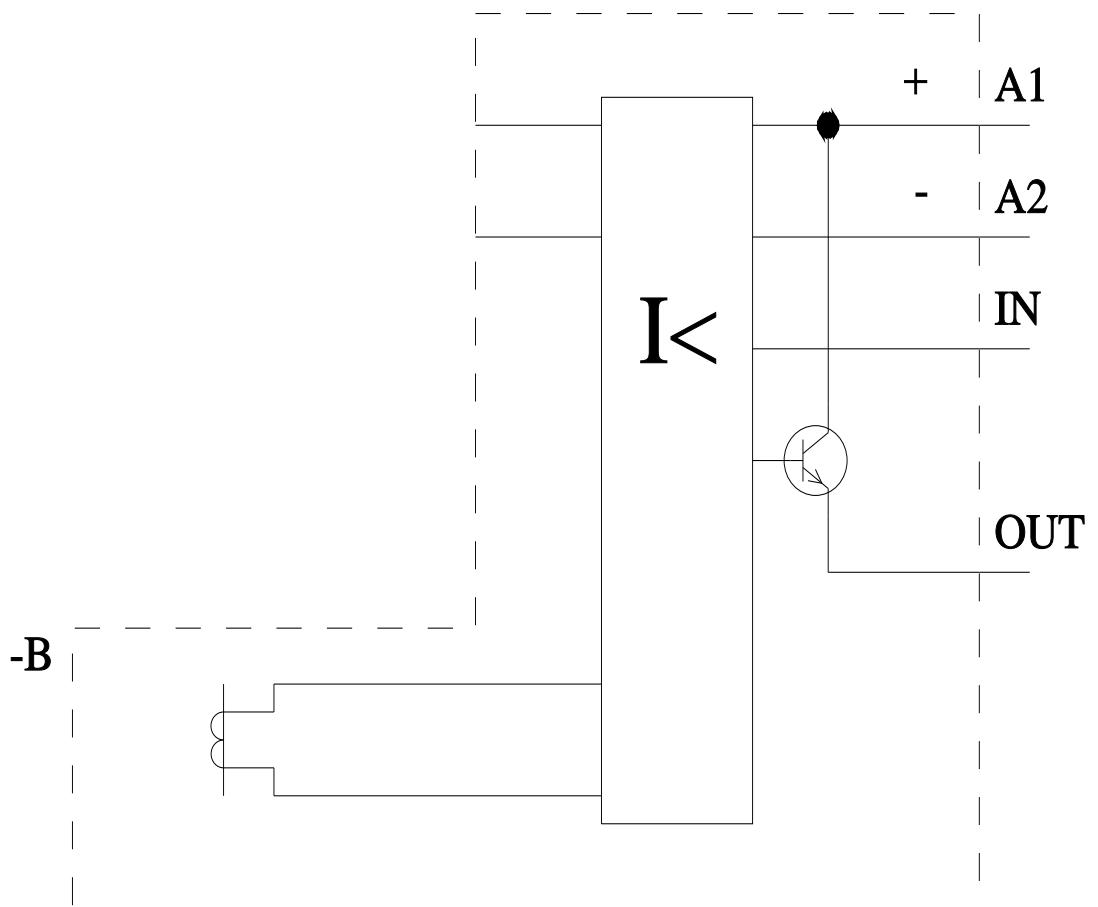
product brand name	SIRIUS
product designation	load monitoring, basis
product type designation	3RF29
manufacturer's article number	
• 1 of the accessories that can be ordered	3RF2900-0RA88
product designation	
• 1 of the accessories that can be ordered	sealable end cover
General technical data	
product function	for 3RF21/23 solid-state relays/solid-state contactors
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)	05/01/2012
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
operating frequency rated value	50 ... 60 Hz
relative symmetrical tolerance of the operating frequency	10 %
operational current	
• at AC-51 rated value	6 A
derating temperature	40 °C
Control circuit/ Control	
type of voltage	DC
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	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1 mm ²)	
— finely stranded with core end processing	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1 mm ²)	
— finely stranded without core end processing	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1 mm ²)	
• 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		
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	-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	
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	Test Certificates



Type Test Certificates/Test Report

[Confirmation](#)[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=3RF2906-0FA08>**Cax online generator**<https://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, ...)**https://www.automation.siemens.com/bildb/cax_de.aspx?mlfb=3RF2906-0FA08&lang=en



last modified:

12/7/2025