



LOAD MONITORING BASE CURRENT RANGE 6A 40 DEG.
C CONTROL VOLTAGE 24V DC WITH THE COVERING
CAPS MOUNTED FOR SOLD-STATE RELAYS /
CONTACTORS

General technical data:		
product brand name		SIRIUS
product designation		load monitoring, basis
Product function		solid-state relay / solid-state contactor 3RF2
Number of poles / for main current circuit		0
Protection class IP		IP20
Product designation / _1 / of the accessories that can be ordered		sealable end cover
Manufacturer article number / _1 / of the accessories that can be ordered		3RF2900-0RA88
Hole diameter / of the current transformer	mm	7
Number of partial loads / for load monitoring		6
Ambient temperature		
• during operating	°C	-25 ... +60
• during storage	°C	-55 ... +80
Installation altitude / at a height over sea level / maximum	m	1,000
Resistance against vibration / according to IEC 60068-2-6		2g
Resistance against shock / according to IEC 60068-2-27		15g / 11 ms
Item designation		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		A

- according to DIN EN 61346-2

B

Main circuit:

Number of NO contacts / for main contacts

0

Number of NC contacts / for main contacts

0

Derating temperature

°C

40

Operating frequency

- rated value

Hz

50 ... 60

Relative symmetrical tolerance / of the operation frequency

%

10

Insulation voltage / rated value

V

600

Partial load / for load monitoring

A

0.25

Metering range current

A

0 ... 6.6

Control circuit:

type of voltage

DC

Control supply voltage

- for DC / rated value

V

24 ... 24

- for DC / final value for signal<0>-recognition

V

12

Relative symmetrical tolerance / of the supply voltage frequency

%

10

Control current / for DC / rated value

mA

25

Response delay time

s

0.1 ... 0.1

Auxiliary circuit:

Number of NC contacts / for auxiliary contacts

0

Number of NO contacts / for auxiliary contacts

0

Number of change-over switches / for auxiliary contacts

0

Operating voltage / of the auxiliary contacts

- for DC

V

15 ... 24

Operating current / of the auxiliary contacts

- for DC

mA

1 ... 50

Voltage drop / at the digital output / at the switching section / at signal <1>

mV

1

Output current / at the digital output / at signal <0> / maximum

μA

200

Installation/mounting/dimensions:

Type of mounting

clip-on

Type of fixing/fixation / series installation

Yes

Width

mm

22.5

Height

mm

101.5

Depth

mm

67

Connections:

Design of the electrical connection • for auxiliary and control current circuit		screw-type terminals
Design of the thread / of the connection screw / of the auxiliary and control pins		M3
Type of the connectable conductor cross-section • for auxiliary and control contacts • solid • finely stranded • with conductor end processing • without conductor final cutting • for AWG conductors / for auxiliary and control contacts		1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²) 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²) 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²) 1x (AWG 20 ... 12)
Conductor cross-section that can be connected / for auxiliary and control contacts • solid • stranded wire • with conductor end processing / • without conductor final cutting	mm²	0.5 ... 2.5
	mm²	0.5 ... 2.5
	mm²	0.5 ... 2.5
AWG number / as coded connectable conductor cross-section • for auxiliary and control contacts		12 ... 20
Skinning length / of the cable / for auxiliary and control contacts	mm	7
Tightening torque / for auxiliary and control contacts • with screw-type terminals	N·m	0.5 ... 0.6
Tightening torque (lbf·in) / for auxiliary and control contacts • with screw-type terminals	lbf·in	4.5 ... 5.3

Certificates/approvals:

General Product Approval	EMC	Declaration of Conformity	Test Certificates
 CSA  GOST  UL  C-TICK  CE EG-Konf.			Type Test Certificates/Test Report

other

[Environmental Confirmations](#)

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

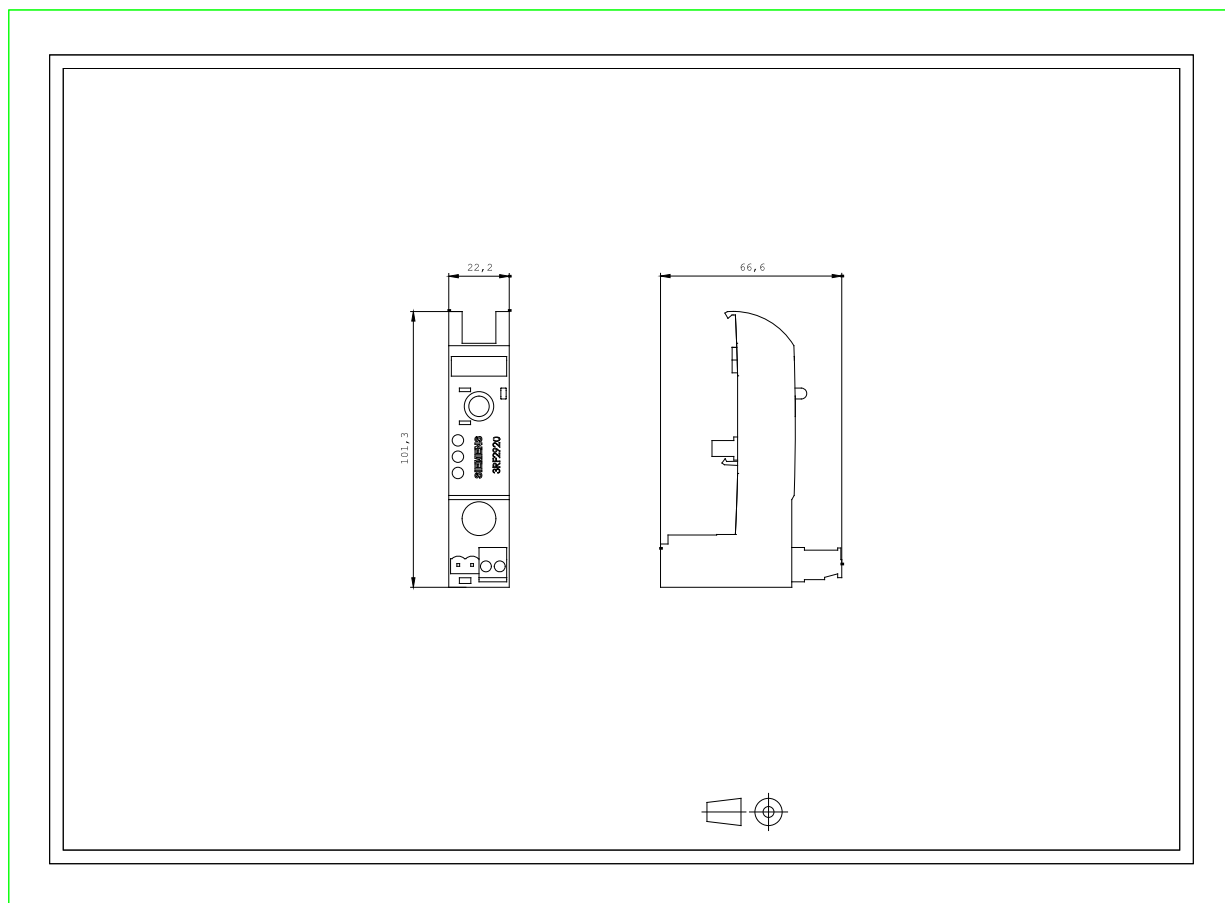
<http://www.siemens.com/industrial-controls/catalogs>

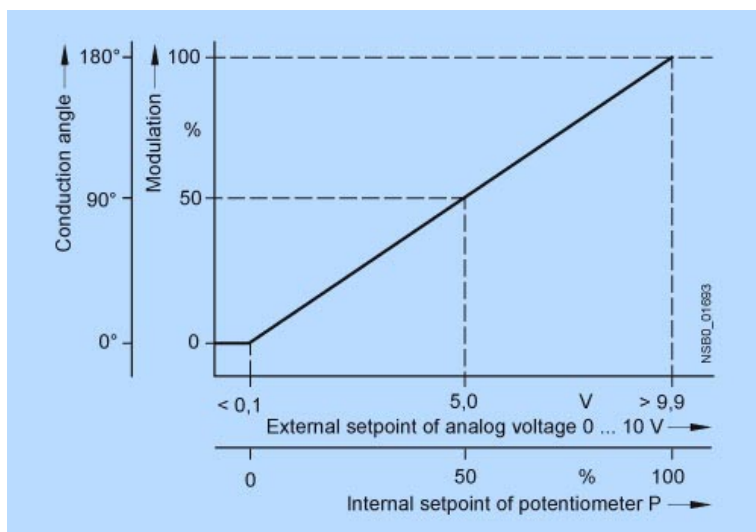
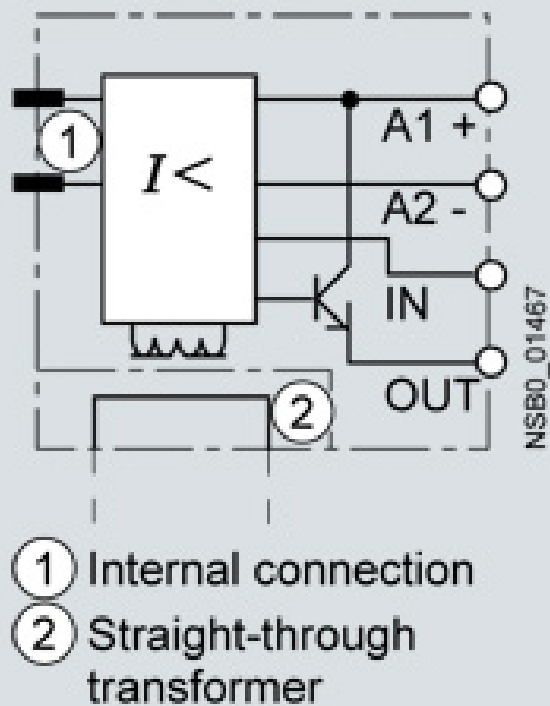
Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>

CAX-Online-Generator

<http://www.siemens.com/cax>





last change:

Feb 18, 2013