

Active power transducer

G2BA400V12A 4...20mA

Loadmonitors - GAMMA series

True power monitoring in 1- or 3-phase mains

Analog output 4...20mA

Suitable for VFI (10 to 100Hz)

Zoom voltage 24V to 240V DC and 48V to 240V AC

Width 22.5mm

Industrial design



Technical data

True power monitoring in 1- and 3-phase mains with analog output 4 ... 20mA and the following settings (selectable by means of rotary switch):

Zero setting of zero point

(0%, 25%, 50%, 75% of nominal value)

fine setting of zero point Zero Fine (0% ... 25% of nominal value)

Span

. (100%, 75%, 50%, 25% of nominal value)

Range measuring range reversible between

0.6kW, 1.2kW, 2.4kW, 4.8kW

2. Indicators

Green LED U ON: indication of supply voltage Yellow LED's ON/OFF: indication analog output 4...20mA

3. Mechanical design

Self-extinguishing plastic housing, IP rating IP40 Mounted on DIN-Rail TS 35 according to EN 50022

Mounting position: any

Shockproof terminal connection according to VBG 4 (PZ1 required),

IP rating IP20

Tightening torque: max. 1Nm

Terminal capacity:

1 x 0.5 to 2.5mm² with/without multicore cable end

1 x 4mm² without multicore cable end

2 x 0.5 to 1.5mm2 with/without multicore cable end 2 x 2.5mm² flexible without multicore cable end

4. Input circuit

24V to 240V DC Supply voltage: 48V to 240V AC

A1-A2 (galvanically seperated) Terminals:

48V to 240V AC -15% to +10% 24V to 240V DC -20% to +25%

Rated frequency:

48 to 400Hz 48V to 240V AC Rated consumption: 2.5VA (1.3W) Duration of operation: 100% Reset time: 500ms

Ripple and noise:

Drop-out voltage: >30% of supply voltage

III (in accordance with IEC 60664-1) Overvoltage category:

Rated surge voltage:

5. Output circuit

1 analog output 4...20mA Terminals: X1(+) - X2(-) Settling time: <300ms Burden: max. 500Ω 3kV DC Galvanic isolation:

6. Measuring circuit

Measuring range PN: reversible between

0.6kW, 1.2kW, 2.4kW, 4.8kW

Wave form

AC Sinus: 10 to 400Hz Sinus weighted PWM: 10 to 100Hz Measuring input voltage: terminals L1-L2-L3 1-phase mains 0 to 400V AC 3-phase mains 3~ 0 to 415/240V Overload capacity:

440V AC 1-phase mains 3-phase mains 3~ 500/289V Input resistance: 1ΜΩ . Measuring input current: terminal i-k

Measuring range 0.6kW, 1.2kW: 0 to 6A

Measuring range 2.4kW, 4.8kW: 0 to 12A (for I>8A distance >5mm)

Overload capacity: 12A permanent Input resistance: <10mΩ

III (in accordance with IEC 60664-1) Overvoltage category:

Rated surge voltage:

7. Accuracy

Base accuracy: ±2% (of maximum scale value)

Frequency influence: ±0.025% / Hz Voltage influence:

≤0.05% / °C Temperature influence:

8 Ambient conditions

Ambient temperature: -25 to +55°C

(in accordance with IEC 60068-1) -25 to +40°C (in accordance with UL 508)

-25 to +70°C Storage temperature: Transport temperature: -25 to +70°C

Relative humidity: 15% to 85%

(in accordance with IEC 60721-3-3

Klasse 3K3)

3 (in accordance with IEC 60664-1) Pollution degree:

10 to 55Hz 0.35mm Vibration resistance:

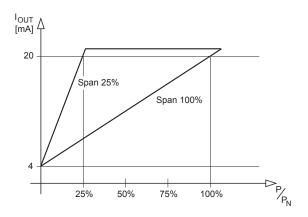
(in accordance with IEC 60068-2-6)

Shock resistance:

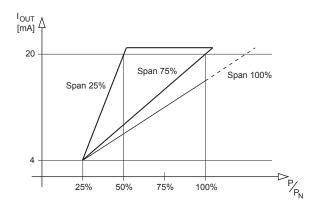
(in accordance with IEC 60068-2-27)

Functions

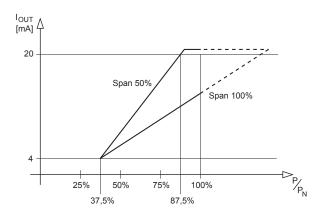
Zero = 0% / Span = 25% ; Zero = 0% / Span = 100%



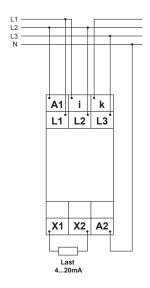
Zero = 25% / Span = 25% ; Zero = 25% / Span = 75%

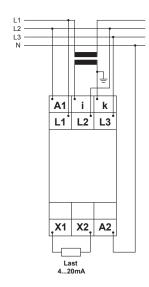


Zero = 37,5% / Span = 50% ; Zero = 37,5% / Span = 100%

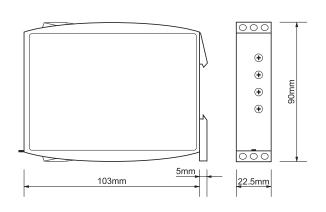


Connections





Dimensions



RELEASE 2009/07

Subject to alterations and errors

