

Active power transducer

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

G2BA480V12A 4...20mA



Read and understand these instructions before installing, operating or maintaining the equipment.



Danger! Never carry out work on live parts! Danger of fatal injury! The product must not be used in case of obvious damage. To be installed by an authorized person.

Technical data

1. Functions

True power monitoring in 1- and 3-phase mains with analog output 4 \dots 20mA and the following settings which are selected by means of rotary switch:

setting of zero point
(0%, 25%, 50%, 75% of nominal value) fine setting of zero point
(0% 25% of nominal value)
span
(100%, 75%, 50%, 25% of nominal value)
measuring range reversible between 0.75kW, 1.5kW, 3kW, 6kW

2. Indicators

Terminals:

Tolerance:

Reset time:

48V to 240V a.c.

24V to 240V d.c.

Rated frequency:

Ripple and noise:

Drop-out voltage:

48 to 400Hz

Rated consumption:

Duration of operation:

Overvoltage category:

Rated surge voltage:

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 60715 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 Supply voltage: 24V to 240V d.c.

48V to 240V a.c. A1-A2 (galvanically seperated)

> -15% to +10% -20% to +25%

48V to 240V a.c. 2.5VA (1.3W) 100% 500ms

>30% of supply voltage III (in accordance with IEC 60664-1) 4kV 5. Output circuit 1 analog output Terminals: Settling time: Burden: Galvanic isolation:

6. Measuring circuit Measuring range P_N :

Wave form a.c. Sinus: Sinus weighted PWM: Measuring input voltage: 1-phase mains 3-phase mains Overload capacity: 1-phase mains 3-phase mains Input resistance: Measuring input current: Measuring range 0.75kW, 1.5kW: 0 to 6A Measuring range 3kW, 6kW: Overload capacity: Input resistance: Overvoltage category: Rated surge voltage:

7. Accuracy

Base accuracy: Frequency influence: Voltage influence: Temperature influence:

8. Ambient conditions Ambient temperature:

Storage temperature: Transport temperature: Relative humidity:

Pollution degree: Vibration resistance:

Shock resistance:

4...20mA X1(+) - X2(-) <450ms max. 500Ω 3kV d c

reversible between 0.75kW, 1.5kW, 3kW, 6kW

10 to 400Hz 10 to 100Hz terminals L1-L2-L3 0 to 480V a.c. 3~ 0 to 480/277V

 $\begin{array}{l} 550V \mbox{ a.c.} \\ 3\sim 550/318V \\ 1.25M\Omega \\ terminal i-k \\ : 0 \mbox{ to } 6A \\ 0 \mbox{ to } 12A \mbox{ (for I>8A \mbox{ distance >5mm)} \\ 12A \mbox{ permanent} \\ <10m\Omega \\ III \mbox{ (in accordance \ with IEC \ 60664-1) } \\ 4kV \end{array}$

±2% (of maximum scale value) ±0.025% / Hz

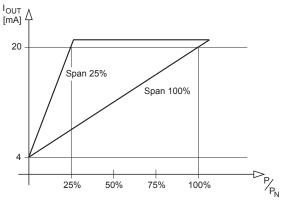
≤0.05% / °C

-25 to +55°C (in accordance with IEC 60068-1) -25 to +40°C (in accordance with UL 508) -25 to +70°C -25 to +70°C 15% to 85% (in accordance with IEC 60721-3-3 class 3K3) 3 (in accordance with IEC 60664-1) 10 to 55Hz 0.35mm (in accordance with IEC 60068-2-6) 15g 11ms (in accordance with IEC 60068-2-27)

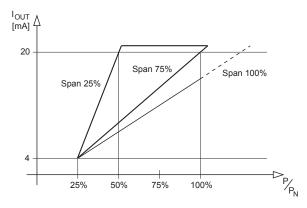
G2BA480V12A 4...20mA

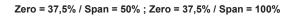
Functions

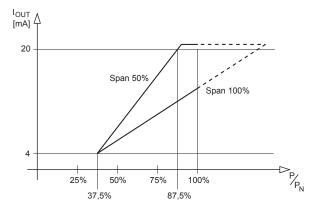
Zero = 0% / Span = 25% ; Zero = 0% / Span = 100%

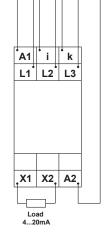


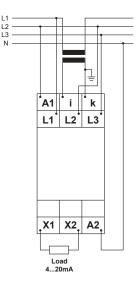
Zero = 25% / Span = 25% ; Zero = 25% / Span = 75%







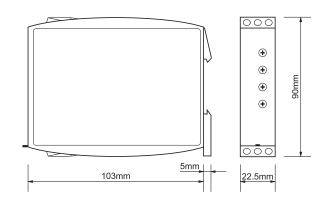






Connections

L1 L2 L3 N



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RELEASE 2012/08

Subject to alterations and errors

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