AMELEC SIGNAL CONDITIONING

ADP414-3P3W Watt Transducer

- **Measure Watt-3P3W Unbalanced**
- **2 years warranty**
- **Precision measurement even for distorted wave.**
- **High stability**
- **Low output ripple**
- **High protection against spikes & surges**

Input

Voltage: Any up to 415Vmax (Typically 120 /240 /415V)

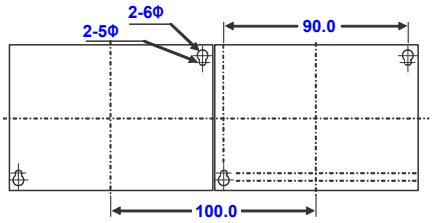
Current: Any up to 10A max (Typically 1A / 5A)

Input Burden 0.1VA

Output:

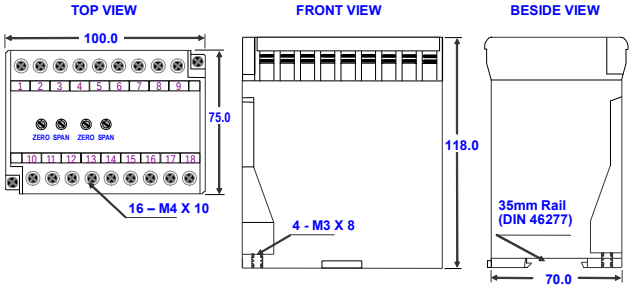
DC current or voltage specified in the range of:
Current up +/-20mA max (in to 550 ohms max)
Voltage any from +/-10V max (750 ohms min)
Typical output range: 4 – 12 - 20mA (550 ohms)

SURFACE MOUNTING HOLES

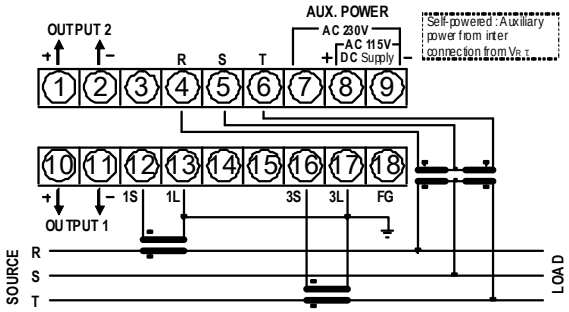


Unit: mm

DIMENSIONS



Watt / Var / Watt & Var - 3Φ3W (Unbalanced)



Accuracy :	≦ ±0.2% of F.S.
Waveform effect:	≦ 0.2% of F.S. at 30% distortion
Max. input over :	Voltage: 1.5 x rated continuous 2 x rated for 10 seconds 4 x rated for 2 seconds Current: 3 x rated continuous 10 x rated for 10 seconds 50 x rated for 1 second
Input frequency:	50 Hz ±3 Hz, 60 Hz ±3 Hz
Response time:	≦ 250 m-sec.
Span adjustment:	≦ ±5% of Span
Zero adjustment:	≦ ±2% of Span
Output load effect:	Current output ≦ 0.1% of F.S. Voltage output ≦ 0.05% of F.S.
Power supply:	AC 115/230V ±15%, 50/60 Hz AC 380 or 415V ±15%, 50/60 Hz Option: DC 24V Self Powered: From input volt Working volt: ±15% of I/P V.
Power effect:	≦ 0.05% of F.S.
Power consumption:	≦ 4VA
Magnetic field strength:	400ATM ≦ 0.2% of F.S.
Operating temp:	0~60 °C
Relative humidity:	20~95 % RH, non-condensing
Temp coefficient:	≦ 100 PPM/°C
Storage temperature:	-10~70 °C
Dielectric Strength:	IEC 414, IEC 688:1992, ANSI C37.90a Between Input / Output / Power / Case AC 4KV, 50/60Hz, 1 min.
Surge test:	IEC 255-4, ANSI C37.90a 6KV, 1.2 x 50 µsec. Common mode & differential mode
Safety:	IEC 414,BS 5458
Enclosure:	IEC 529 (IP30)
Isolation:	Input / Output / Power / Case
Insulation R:	≧ 100M ohm, DC 500V
Performance:	In accordance with IEC 688
Mounting:	Wall or DIN rail (EN 50022)
Weight:	< 650g

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