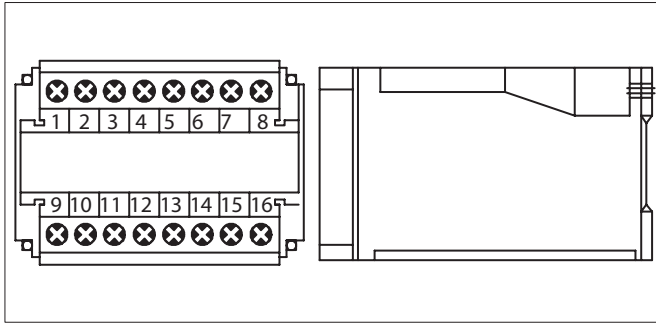


AC CURRENT TRANSDUCER (3-PHASE)

MODEL : DA - 3 / DA - 3T



FEATURES

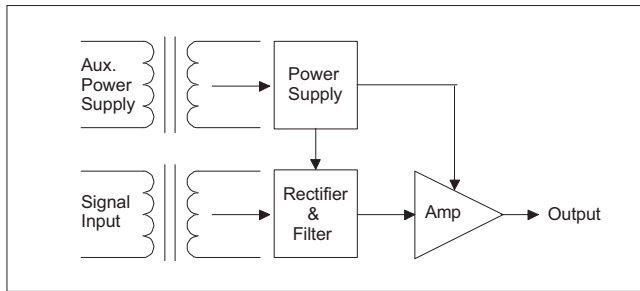
- Accuracy $\pm 0.2\%$ RO.
- 3 element are packaged in one case
- Excellent long term stability (4~20mA, 750 Ω)
- Precision measurement even for distorted wave (DA-3T)
- High impulse & surge protection (5KV)
- The case can be mounted on a 35mm rail which complies with DIM 46277

DESCRIPTION

Model : DA-3 for 3 Φ CURRENT input (AVG.)
DA-3T for 3 Φ CURRENT input (TRMS)

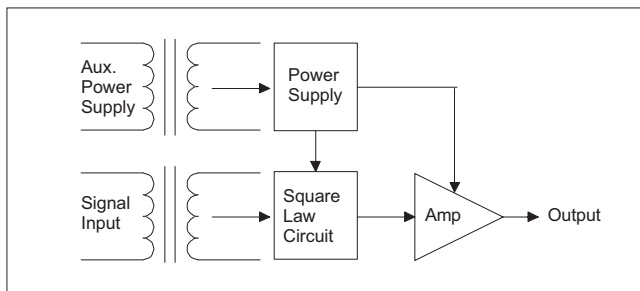
Sinusoidal Waveforms - AVG

DA-3 Transducer converting a sinusoidal alternating current or voltage into a dc output, proportional to the RMS value of input. These units are average sensing, but RMS calibrated for a sine wave with less than 1% distortion. The input signal is converted to a dc voltage which then feeds to a single stage amplifier and a dc output produced.

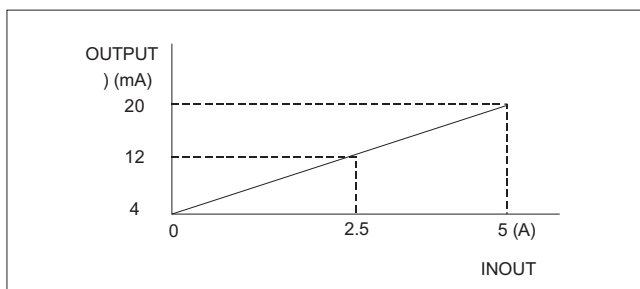


NON-Sinusoidal waveforms - TRMS

DA-3T Transducer are designed for use on waveforms with up to 30% of 3rd harmonic content. The input signal is fed to an RMS detection circuit and the resultant dc volts produced are a linear function of the RMS value of input waveform. This dc voltage is converted to a milliamp output via an output amplification circuit



INPUT-OUTPUT CURVE



SPECIFICATION

INPUT

Model	Input Range	Input Burden	Input Frequency	Max. Input Over Capability
DA-3 (AVG.)	0~1A	$\leq 0.1VA$ (phase)	50Hz \pm 3Hz or 60Hz \pm 3Hz	3 rated continuous 10 rated 10sec 50 rated 1sec
DA-3T(TRMS)	0~5A			

OUTPUT

DC output Range	Load Resistance	Output Resistance	Output Ripple	Response Time
0 ~ 1V	$\geq 500\Omega$	$\leq 0.05\Omega$	$\leq 0.5\%$ RO. (peak)	$\leq 400ms$ 0~99%
0 ~ 5V	$\geq 500\Omega$			
1 ~ 5V	$\geq 500\Omega$			
0 ~ 10V	$\geq 500\Omega$	$\geq 20M\Omega$		
0 ~ 1mA	0 ~ 15K Ω	$\geq 5M\Omega$		
0 ~ 10mA	0 ~ 1500 Ω			
0 ~ 20mA	0 ~ 750 Ω			
4 ~ 20mA	0 ~ 750 Ω			

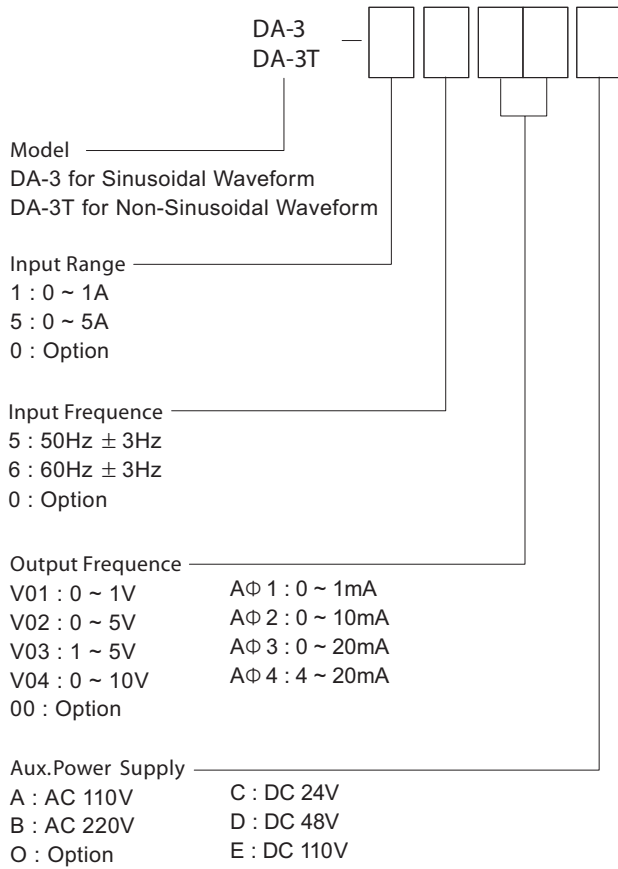
- Accuracy : $\pm 0.2\%$ Rated of Output
 Aux. Power supply : AC 110V $\pm 15\%$, 50/60Hz
 AC 220V $\pm 15\%$, 50/60Hz
 DC24V, 48V, 110V, +15%, -10%
 Power effect : $\leq 0.1\%$ RO
 Mutual interference effect : $\leq 0.1\%$ RO. between element.
 Power consumption : $\leq 6.5VA$, $\leq DC 9W$
 Waveform effect : $\leq 0.2\%$ RO, at distortion factor 30% (DA-3T)
 Magnetic field strength : 400A/M. $\leq 0.2\%$ RO.
 Output load effect : current output $\leq 0.1\%$ RO.
 voltage output $\leq 0.05\%$ RO.
 Span adjustment range : $\geq 5\%$ RO
 Zero adjustment range : $\geq 1\%$ RO
 Operating temperature range : 0 ~ 60 $^{\circ}C$
 Storage temperature range : -10~70 $^{\circ}C$
 Temperature coefficient : $\leq 100PPM$ from 0 to 60 $^{\circ}C$
 Max. relative humidity : 95%
 Isolation : Input/output/power/case
 Insulation resistance : $\leq 100M\Omega$, DC 500V
 Dielectric withstand voltage ; Between input/output/power/case
 (IEC 414, 688, ANSI, C37) AC 3KV, 60Hz, 1min
 Impulse withstand test : 5KV, 1.2x50 μs
 (IEC 255-4, ANSI C37 90a) Common mode & differential mode
 Performance : Designed to comply with IEC688
 Safety requirements : IEC 414, BS5458

AC CURRENT TRANSDUCER (3-PHASE)

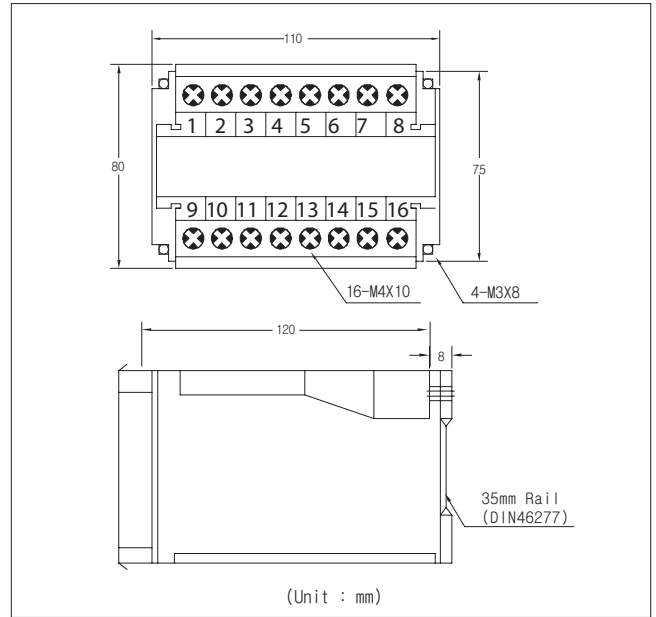
MODEL : DA - 3 / DA - 3T

ORDERING MODEL MAKE UP

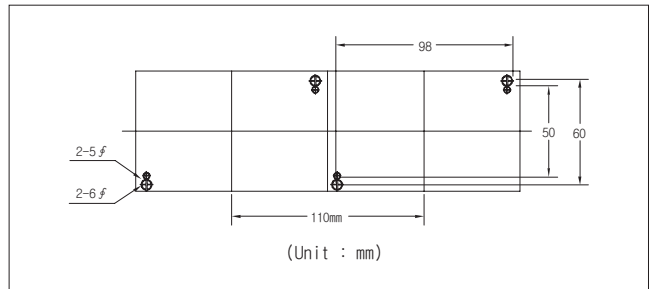
· CURRENT TRANSDUCER



THE OUTSIDE DIMENSION



PANEL MOUNTING HOLES



CONNECTION DIAGRAM

DA-3, DA-3T

