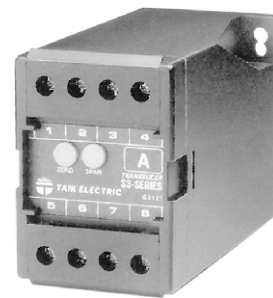




FEATURES

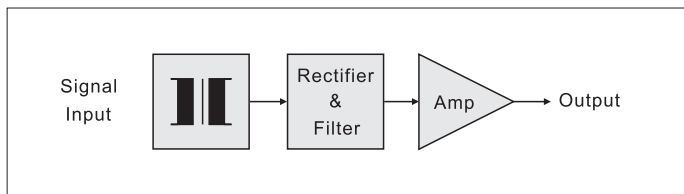
- Accuracy $\pm 0.25\%$ R.O.
- Aux. power source is not required
- High impulse & surge protection (5KV)
- The case can be mounted on a 35mm rail which complies with DIN 46277



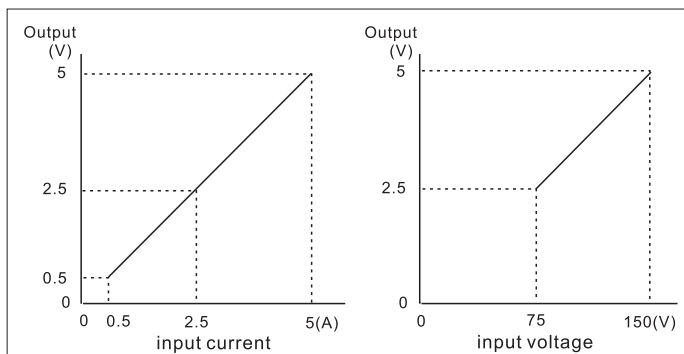
DESCRIPTION

Model: S3-ASD-1 1 Φ CURRENT input
S3-VSD-1 1 Φ VOLTAGE input

These 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.



INPUT - OUTPUT CURVE



SPECIFICATION

INPUT

Model	Input Range	Measuring Range	Input Burden	Input Frequency
S3-ASD	0~1A	0.1A~1A	$\cong 1.5VA$	50HZ \pm 2HZ or 60HZ \pm 2HZ
	0~5A	0.5A~5A		
S3-VSD	0~150V	75V~150V	$\cong 1.5VA$	50HZ \pm 2HZ or 60HZ \pm 2HZ
	0~300V	150V~300V		

Max. Input Over Capability: (Current input) 3 x rated continuous
10 x rated 10 sec.
50 x rated 1 sec.
(Voltage input) 2 x rated continuous

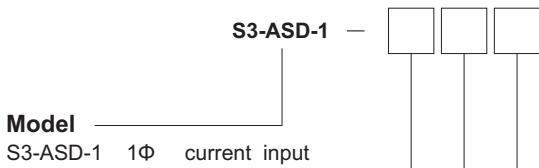
OUTPUT

DC Output Range	Load Resistance	Output Resistance	Output Ripple	Response Time
0 ~ 1V	$\cong 2 K\Omega$	$\cong 4 \Omega$	$\cong 1\%$ R.O. (peak)	$\cong 800mS$ 0 ~ 99%
0 ~ 5V	$\cong 10K\Omega$	$\cong 20\Omega$		
0 ~ 10V	$\cong 20K\Omega$	$\cong 40\Omega$		
0 ~ 1mA	$\cong 5 K\Omega$	$\cong 5M\Omega$		
0 ~ 5mA	$\cong 2 K\Omega$	$\cong 5M\Omega$		
0 ~ 10mA	$\cong 500\Omega$	$\cong 5M\Omega$		
0 ~ 20mA	$\cong 500\Omega$	$\cong 5M\Omega$		

Accuracy $\pm 0.25\%$ Rated of Output
 Measuring range (S3-ASD) 10% ~ 100%
 (S3-VSD) 50% ~ 100%
 Output load effect Current output $\cong 0.1\%$ R.O.
 Voltage output $\cong 0.05\%$ R.O.
 Magnetic field strength $\cong 0.2\%$ R.O. 400A/M
 Span adjustment range $\cong 5\%$ R.O.
 Zero adjustment range $\cong 1\%$ R.O.
 Operating temperature range 0 ~ 60 °C
 Storage temperature range -10 ~ 70 °C
 Temperature coefficient $\cong 200PPM$ from 0 ~ 60 °C
 Max. relative humidity 95%
 Isolation Input/output/case
 Isolation resistance $\cong 100M\Omega$, DC 500 V
 Dielectric withstand voltage Between input/output/case
 IEC 60688 AC 2.6 KV,60 HZ,1 minute
 Impulse withstand test IEC 61000-4-5 5KV, 1.2 x 50 μs
 Performance Common mode & differential mode
 Designed to comply with IEC 60688



ORDERING INFORMATION



Model
S3-ASD-1 1Φ current input

Input Range

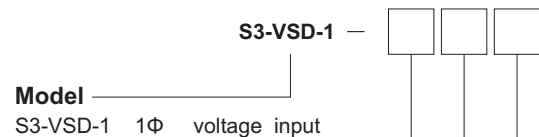
- 1: 0 ~ 1A
- 5: 0 ~ 5A
- 0: Option

Input Frequency

- 5: 50HZ ± 2HZ
- 6: 60HZ ± 2HZ
- 0: Option

Output Range

- V1: 0 ~ 1V
- V2: 0 ~ 5V
- V4: 1 ~ 10V
- A1: 0 ~ 1mA
- 00: Option



Model
S3-VSD-1 1Φ voltage input

Input Range

- 1: 0 ~ 150V
- 3: 0 ~ 300V
- 0: Option

Input Frequency

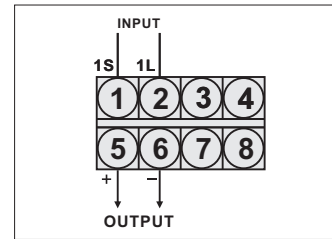
- 5: 50HZ ± 2HZ
- 6: 60HZ ± 2HZ
- 0: Option

Output Range

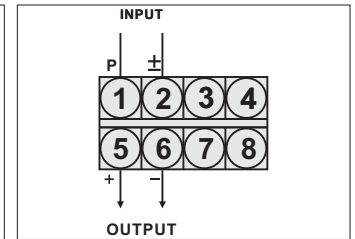
- V1: 0 ~ 1V
- V2: 0 ~ 5V
- V4: 0 ~ 10V
- A1: 0 ~ 1mA
- 00: Option

CONNECTION DIAGRAM

S3-ASD-1



S3-VSD-1



THE OUTSIDE DIMENSION(UNIT:mm)

- S3-ASD-1, S3-VSD-1

