DWG NO. : 06220052
VER : 1.0_20/05/05

AC Var Transducer

SPK201

◎ Standard output with 0 to 1 mAdc
◎ Accuracy of reading base 0.25% reading + 0.02% ro
◎ High magnetic field immunity
◎ Meets IEEE SWC test

MODEL
201 - 3 phase 3 wires / 2 element

Description

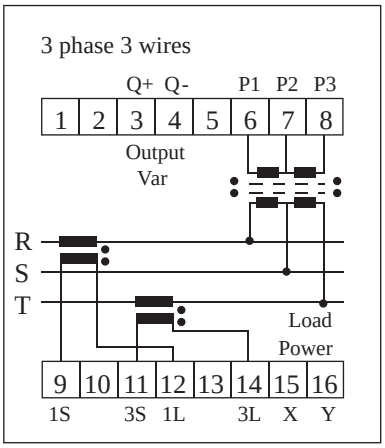
HC model SPK-VAR transducer is designed to be an accurate unit, conversion by principle of time division multiplier as a function of sampling duty cycle as voltage & pulses amplitude as current. Rugged steel enclosure of magnetic field immunity & high electrical over capability, the units feature stable & reliable field operation as industry, laboratories & process control for power measurement.

Specification

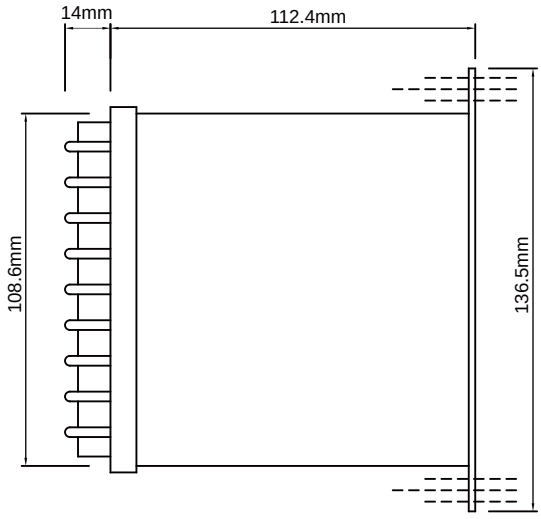
1.Accuracy	0.25% RD + 0.02%RO / 23 ± 3°C
2.Input (each element)	
Range	Effective voltage 85-150V; current 0-6A Nominal voltage 120V current 5A
Over capability	Voltage 200V continuous ; 250V ... 10sec / hour; 500V ... 2sec / hour Current 15A continuous ; 50A ... 10sec / hour; 250A...1sec / hour ; 400A ... 0.5sec / hour
Burden	Voltage < 0.1VA at 120V input; current < 0.2VA at 5A input
Frequency	60Hz only
Protection	Full protection for SURGE, EMI & RFI
3.Output (isolated with input)	
Range	DC 0 to ±1mA DC 0 to ±1mA calibration vs 0 to ± 1000VAR
Output load	Maximum 10k ohm for 0 to ±1mA ouput
Output impedance	> 30 Mega ohm
Response time	< 400 ms from 0 to 99% RO at operating
Ripple	< 0.5% P-P RO
Long term stability	< 0.1% RO per year (typically)
Temperature stability	< 0.01% per degree C, from 0 to 55°C
Adjustment	Span ± 5% / 10%; zero ± 2.5% / 5% on request
Protection	No damage ... open or short; full protection ... SURGE, EMI, RFI
Magnetic effection	< 0.04% at center 400 A-T / M

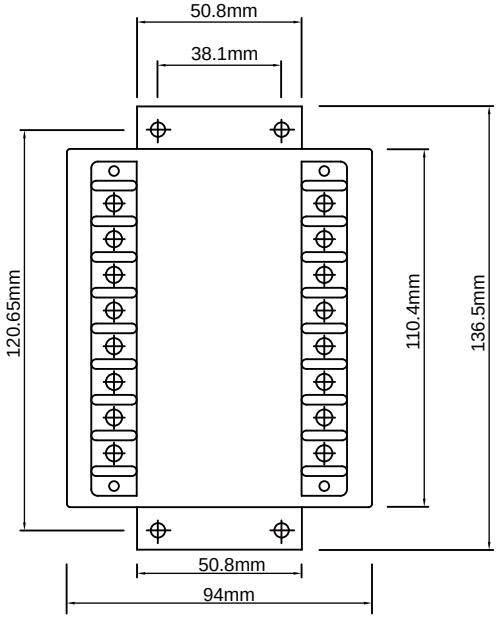
4.Power supply	AC115 ± 20%, 50-70Hz, < 3VA
5.Operation condition	
Environment	
Temperature	-5 to 60°C
Humidity	20 to 99% RH non condensed
Elevation	Under 3000 meters
Magnetic field	500 A-T / M
Waveform	Sinusoidal
Power factor	Any
Dielectric strength	4KV AC rms 1 minute between input / output / power / case IEC 688
Impulse test	ANSI C37.90/1989, IEEE 587/1983, IEC 255-3, 6KV (1.2 x 50 us), 3KA (8 x 20 us) .... current only
Surge test (ring wave)	IEEE 587/1983 (3KV - 0.5us / 100KHz)
	IEC 255-3 (2.5KV - 0.25ms / 1MHz)

Terminal Connection



Dimension





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