



3VACT Series AC Voltage Transducers

Part No. [3VACT150-LL-42-24](#)Part No. [3VACT150-LL-42-120A](#)

3VACT Series 3-Phase Voltage Transducers are designed to monitor AC voltage and detect conditions where supply voltage is above or below normal. Detecting such conditions helps users to avoid problems commonly associated with voltage irregularities such as motor overheating, brownouts and conductor failure or poor connections. The additional feature of monitoring for phase loss and providing an average voltage output help when troubleshooting uneven loads and other phase conditions.

Applications

True RMS Voltage Monitoring

- Detect below normal or "brownout" voltage conditions; protect against possible motor overheating
- Identify phase-loss conditions by detecting voltage reduction in one or more phase of three-phase motor
- Monitor over-voltage conditions associated with regenerative voltage to help in diagnosing/avoiding motor drive issues
- Ideal for challenging electrical environments and non-sinusoidal power applications like VFDs

Features

- **True RMS Output:** Allows for use in situations where power supplied is non-sinusoidal, poor power quality installations or other electrically harsh/challenging environments. Three-phase and phase-average outputs
- **4x Standard 4-20 mA Outputs:** Industry standard output is easy and reliable while using existing controllers, data loggers, and SCADA equipment
- **Input/Output Isolation:** Input and output circuitry electrically isolated for improved safety of use
- **Phase Loss Detection:** SPST Form A relay activates when voltage drops below threshold
- **DIN rail or Panel Mount Enclosure**
- **Five-year warranty**



3VACT Series AC Voltage Transducers

Part Number	Description	Pcs/Pkg	Wt (lb)	Drawing Link	Price
3VACT150-LL-42-120A	AcuAMP AC voltage transducer, 3-phase, 0-150 VAC line-to-line sensing range, True RMS, (4) 4-20 mA and (1) relay, SPST-N.O. output, 0.5A @ 125 VAC, 1A @ 30 VDC output rating, phase loss @ 90 VAC non-adjustable trip point, 120 VAC operating voltage.	1	1.02	PDF	\$687.00
3VACT150-LL-42-24	AcuAMP AC voltage transducer, 3-phase, 0-150 VAC line-to-line sensing range, True RMS, (4) 4-20 mA and (1) relay, SPST-N.O. output, 0.5A @ 125 VAC, 1A @ 30 VDC output rating, phase loss @ 90 VAC non-adjustable trip point, 24 VAC/VDC operating voltage.	1	0.74	PDF	\$687.00
3VACT150-LN-42-120A	AcuAMP AC voltage transducer, 3-phase, 0-150 VAC line-to-neutral sensing range, True RMS, (4) 4-20 mA and (1) relay, SPST-N.O. output, 0.5A @ 125 VAC, 1A @ 30 VDC output rating, phase loss @ 90 VAC non-adjustable trip point, 120 VAC operating voltage.	1	1.01	PDF	\$687.00
3VACT150-LN-42-24	AcuAMP AC voltage transducer, 3-phase, 0-150 VAC line-to-neutral sensing range, True RMS, (4) 4-20 mA and (1) relay, SPST-N.O. output, 0.5A @ 125 VAC, 1A @ 30 VDC output rating, phase loss @ 90 VAC non-adjustable trip point, 24 VAC/VDC operating voltage.	1	0.75	PDF	\$687.00
3VACT300-LL-42-120A	AcuAMP AC voltage transducer, 3-phase, 0-300 VAC line-to-line sensing range, True RMS, (4) 4-20 mA and (1) relay, SPST-N.O. output, 0.5A @ 125 VAC, 1A @ 30 VDC output rating, phase loss @ 180 VAC non-adjustable trip point, 120 VAC operating voltage.	1	1.02	PDF	\$687.00
3VACT300-LL-42-24	AcuAMP AC voltage transducer, 3-phase, 0-300 VAC line-to-line sensing range, True RMS, (4) 4-20 mA and (1) relay, SPST-N.O. output, 0.5A @ 125 VAC, 1A @ 30 VDC output rating, phase loss @ 180 VAC non-adjustable trip point, 24 VAC/VDC operating voltage.	1	0.74	PDF	\$687.00
3VACT300-LN-42-120A	AcuAMP AC voltage transducer, 3-phase, 0-300 VAC line-to-neutral sensing range, True RMS, (4) 4-20 mA and (1) relay, SPST-N.O. output, 0.5A @ 125 VAC, 1A @ 30 VDC output rating, phase loss @ 180 VAC non-adjustable trip point, 120 VAC operating voltage.	1	1.02	PDF	\$687.00
3VACT300-LN-42-24	AcuAMP AC voltage transducer, 3-phase, 0-300 VAC line-to-neutral sensing range, True RMS, (4) 4-20 mA and (1) relay, SPST-N.O. output, 0.5A @ 125 VAC, 1A @ 30 VDC output rating, phase loss @ 180 VAC non-adjustable trip point, 24 VAC/VDC operating voltage.	1	0.74	PDF	\$687.00
3VACT600-LL-42-120A	AcuAMP AC voltage transducer, 3-phase, 0-600 VAC line-to-line sensing range, True RMS, (4) 4-20 mA and (1) relay, SPST-N.O. output, 0.5A @ 125 VAC, 1A @ 30 VDC output rating, phase loss @ 360 VAC non-adjustable trip point, 120 VAC operating voltage.	1	1.02	PDF	\$687.00
3VACT600-LL-42-24	AcuAMP AC voltage transducer, 3-phase, 0-600 VAC line-to-line sensing range, True RMS, (4) 4-20 mA and (1) relay, SPST-N.O. output, 0.5A @ 125 VAC, 1A @ 30 VDC output rating, phase loss @ 360 VAC non-adjustable trip point, 24 VAC/VDC operating voltage.	1	0.74	PDF	\$687.00

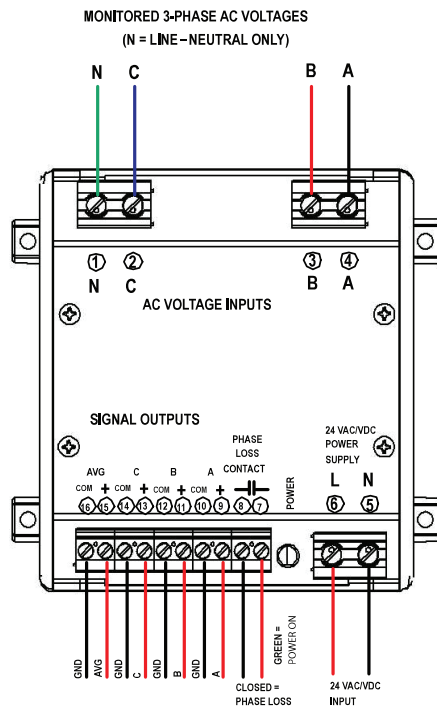


3VACT Series AC Voltage Transducers

3VACT Series Specifications		
Models Available	3VACT 24 VAC/VDC	3VACT 120 VAC
Power Supply	24 VAC/VDC (+/- 10%)	120VAC (+/- 10%) 50/60 Hz
Power Consumption	< 6VA	< 9VA
Input Range	Line-Line: 0-150, 0-300, 0-600 VAC Line-Neutral: 0-150, 0-300 VAC	
Input Impedance	400KΩ	
Output Signals	4-20 mA (capped at 20mA max)	
Output Loading	4-20 mA: <500Ω	
Phase Loss Threshold	0-150 VAC, Phase loss @ 90VAC 0-300 VAC, Phase loss @ 180VAC 0-600 VAC, Phase loss @ 360VAC	
Phase Loss Detection	SPST Form A (NO) relay contact 0.5 A @ 125VAC, 1A @ 30VDC	
Response Time	200ms (to 90% step change)	
Accuracy	1% Full scale	
Isolation Voltages	1250 VAC	
Case	UL94 V-0 Flammability rated thermoplastic	
Environmental	-4 to 140°F (-20 to 60°C) 0-95% RH Non-condensing Pollution Degree 2 Altitude to 6561ft (2000 meters)	
Certifications	UL/cUL (E222847), CE certified	

Wiring

3VACT 24 VAC/VDC Models



3VACT 120 VAC Models

