Energy Sensors
Voltage Transducer

Detailed Technical Data
Model: ACVT Series

Features

Medium	Energy
Sensor type	AC Voltage transducer
Orientation	Vertical
Environment type	Non-hazardous
Purpose	General use / industrial
Mount	35mm DIN rail or screw on to surface
Certifications	cULus listed (E222847), CE

Mechanical

Housing construction	Plastic
Dimensions	3.53”H X 1.40”W
Operating temperature range	-4 to 122° F (-20 to 50°C)
Case	UL94V-0 Flammability Rating

Electronics

Supply voltage	24 VDC (use only class 2 power supply)
Output	4-20mA, proportional; loop powered (sinking), capped at 24mA max
Voltage measurement	150V (for monitoring 120VAC) and 500V (for monitoring 208, 240, 277, 480 VAC), not to exceed 600VAC RMS
Input impedance	150V: 73KΩ, 500V: 300KΩ
Output impedance	500Ω maximum



The HLT Series AC voltage transducers are high-performance True RMS transducers for sensing voltage in single-phase installations. Applicable on circuits of 120V, 208V, 240V, 277V, and 480V, the ACVT series models provide a fully isolated, 4-20 mA output proportional to rated voltage in both sinusoidal and non-sinusoidal (variable frequency) situations. Housed in a slim, compact, easy-to-install DIN rail mounted enclosure, the ACVT series comes in a variety of voltage ranges and use four wire terminal block connections.

Detect below normal or “brown out” 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.
• Detect voltage conditions which may cause stress in or damage to soft starter components (SCRs).

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