

Ward Leonard N302 Electronic Overload Relay



Sophisticated Fiber-Optic Communication

The programmable N302 electronic overload relay with both fiber-optic PROFIBUS and copper-based communication, replaces traditional electro-mechanical relays and less durable commercial electronic relays. Designed to be controlled at point of use and/or remotely through PROFIBUS, the N302 integrates seamlessly into many systems. With numerous functions for direct or remote control, this sophisticated electronic overload relay provides event monitoring, advanced motor control, failure prevention and avoidance. Ideal for critical applications in the toughest environments, the durable N302 relay is able to withstand high shock, vibration, Electromagnetic Interference (EMI), and extreme temperatures.



Features

- Electronic Overload Relay
- Four Line Voltage Inputs
- Two Line Voltage Outputs
- Ethernet Port for Diagnostic / Setup
- Web Server for easy Setup and Diagnostics with any PC
- 3-Phase Voltage and Current Sensing
- Front Panel HMI
 - Reset Button
 - Profibus Node Address Display
 - Bi-colored (Red/Green) Diagnostic LEDs
- Power Supply
 - Single or Three Phase 110 or 440 VAC
- CANopen Expansion Port
- Local or Remote Profibus DP Address Setup
 - Via a Setup Port using a Web Browser
 - Via a local pushbutton
- Built-in Applications for:
 - Single Speed Reversing / Non-Reversing Applications
 - Multi-speed Reversing / Non-Reversing Applications
 - Low-Voltage Release (LVR) / Low-Voltage Protection (LVP)
 - Firmware upgradeable using set-up port
 - Configuration parameter upload/download via set-up port
 - Single or three-phase operation emergency run



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Specification

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Specifications	
Power Supply	85-535 VAC, 50/60 Hz ($\pm 5\%$), 7 W
Voltage Inputs (S1,S2,S3)	0 to 535 VAC RMS
Current Inputs (L1, L2, L3)	100.0 AMP RMS
Digital Inputs	(4) Inputs rated at 115 VAC or 440 VAC($\pm 20\%$)
Digital Outputs	(2) Outputs rated at 10 A (RMS), 100 A inrush for 50 ms
Humidity	95% Non-condensing
Operating Temperature	-20 to +50 degrees Celsius
Storage Temperature	-40 to +80 degrees Celsius

Electronic Overload Relay Features

Voltage

- Over-Voltage Trip
- Under-Voltage Trip
- Voltage Unbalance Trip

Other

- Under-Frequency / Over-Frequency Trip
- Phase Rotation Sensing
- Timers
 - Trip Delay (0-300 s)
 - Restart Delay (0-300 s)
 - Restart Limit

Current

- Instantaneous Overcurrent (JAM) Trip JAM Protection
- Current Unbalance Threshold
- Time Over-Current Trip (Class 1, 4, 5, 10, 15, 20, 25, 30, 60 Very Inverse)
- Under-Current Trip
- Current Unbalance Trip

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