E300™ Electronic Overload Relay

Overview
The E300 Electronic Overload Relay is the next generation electronic overload from Allen-Bradley®. Its modular design, communication options, diagnostic information, simplified wiring and integration into Logix make this the ideal overload for motor control applications in an automation system. The E300 Overload Relay provides flexibility, reduces engineering time and maximizes uptime for important motor starter applications.

Intelligent Motor Control
Easy automation system integration
- Network Connectivity
- Native I/O
- DeviceLogix™ Technology Enabled
- Integrated into Logix
- Pre-programmed Operating Modes

Diagnostic Information
Monitor motor performance
- Voltage, Current and Energy
- Trip / Warning Histories
- % Thermal Capacity Utilization
- Time to Trip
- Time to Reset
- Operational Hours
- Number of Starts
- Snapshot Log

Modular Design
For exact application needs
- Wide Current Range
- Multiple Sensing Capabilities
- Expansion I/O
- Operator Interface
Features

The newly designed E300 Overload Relay has incorporated the newest technologies directly into the device to help simplify installation and configuration.

Simplified Wiring
• Between E300 overload relay and 100-C contactor

On-Device Settings
• Network address configuration
• Restore factory default settings
• Enable security settings

Removable Terminal Blocks

Dual Port EtherNet/IP
• Supports device level ring

Expansion Port
• Expansion I/O
• Operator Station

Product Shown Actual Size (45 mm wide)
**Modular Design**

The new modular design of the E300 Overload Relay allows customers to tailor the device for their application’s exact needs.

**Communication Module**

193-ECM*
- EtherNet/IP™
- DeviceNet™

**Control Module**

193-EIO*

<table>
<thead>
<tr>
<th>Control Voltage</th>
<th>I/O</th>
<th>I/O and Protection †</th>
</tr>
</thead>
<tbody>
<tr>
<td>110-120V AC 50/60 Hz</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>220-240V AC 50/60 Hz</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>24V DC</td>
<td>6</td>
<td>3</td>
</tr>
</tbody>
</table>

† Includes PTC Thermistor and External Ground Fault

**Sensing Module**

592/193-ESM*

- **Sensing Options:**
  - Voltage/Current/
    Ground Fault
  - Current/Ground Fault
  - Current

- **Current Range:**
  - 0.5 – 30 A
  - 6 – 60 A
  - 10 – 100 A
  - 20 – 200 A

**Complete Overload Relay**

**Simplified Logix Integration**

With simple tools such as Add-On Profiles, Add-On Instructions and Faceplates; users can integrate the E300 Overload Relay into Integrated Architecture® with ease. Download the pre-programmed and pre-tested tools, copy and paste the desired portions into your project and configure the properties for your specific application.

* Please refer to the online selection guide for available catalog numbers.
Customizable

Multiple accessory options allow for the E300 Overload Relay to be customized to fit your application needs. Customers can expand out to 4 of the available Digital I/O modules, plus 4 Analog I/O modules along with a power supply and operator interface.

Expansion Digital I/O
- 4 inputs/2 outputs
- 24V DC
- 120V AC
- 240V AC

Expansion Analog I/O
- 3 universal inputs/1 output
- 4 – 20 mA
- 0 – 10V
- RTD
- NTC

Expansion Power Supply
- 120/240V AC
- 24V DC

Expansion Operator Station
- Diagnostic station
- Control station

Expansion Accessories
- Expansion bus cables
- Replacement connectors

Fully Expanded System

www.rockwellautomation.com

Revere Electric Supply
www.reverelectric.com