Overload Relay
Communication Modules

Seamless development of motor starters on Ethernet or Profibus based communications architectures can now be cost effective with the CEP7(S)-EE... electronic overload relay and optional field installable communications modules with minimal space requirements (22mm). Streamline your processes with better control, protection, monitoring, and diagnostic capabilities for improved efficiency. Select a communication module to deliver direct access to motor performance and diagnostic data on either a Ethernet/IP network or Profibus field bus based network.

CEP7-ETN Ethernet Network Communication Module

- Connects to the network via RJ45 (Cat 5) connector.
- Supports I/O and explicit messaging for data access by programmable automatic controller.
- Contains predefined ControlLogix style tags for direct software access.
- Includes an integrated web server to allow users to read information and configure parameters via a computer web browser from remote locations.
- Uses a Simple Mail Transfer Protocol (SMTP) server to send e-mail or text messages in the event of a warning or trip condition.

CEP7-EPRB Profibus Network Communication Module

- Supports both PROFIBUS DP-V0 and DP-V1.
- Connects to the network via 910D shell connector.
- This is a Profibus Slave Device which requires a Profibus Master installed in the control system.

Advantages

- **Compact size**
  - Direct mounting to the left side of the current sensing CEP7 -EE Overload Relay only adds 22mm to the width
- **Simplifies control**
  - Side-mount modules electronically interface with the CEP7 Overload Relay so that all control circuit connections are made at the Overload Relay terminals.
- **Includes integrated I/O**
  - 2 inputs
  - 1 output
- **Provides operational and diagnostic data**
  - Average motor current
  - Percentage of thermal capacity usage
  - Device status
  - Trip and warning identification
  - Trip history (five previous trips)
- **Expands protective functions**
  - Overload warning
    - 1...100% TCU
  - Jam protection
    - Trip setting 150...600% FLA
    - Trip delay 0.5...25 seconds
    - Warning setting 100...600% FLA
  - Underload warning
    - 20...100% FLA

Network Communication Modules

CEP7-ETN
Ethernet Network Communications Module

CEP7-EPRB
Profibus Network Communications Module

ETHERNET/IP COMMUNICATIONS

TCP Connection	150
CIP Connection	48
CIP Unconnected Messages	128
I/O Packet Rates	500/s
Explicit Packet Rates	500/s
Speed Duplex (Half/Full)	10/100
Duplicate IP Detection	Yes

PROFIBUS COMMUNICATIONS

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Baud Rate	9.6 k, 19.2 k, 45.45 k, 93.75 k, 187.5 k, 500 k, 1.5 M, 3 M, 6 M, 12 M
Auto-Baud Rate Identification	Yes
DP-V0 (Cyclic data exchange)	Yes
DP-V1 (Acyclic services)	Yes
DP-V2 (Acyclic services)	No
Set Slave Address (SSA) support	Yes

ELECTRICAL

Power Supply Ratings	
Rated Supply Voltage	24V DC
Rated Operation Range	20.4...26.4V DC
Rated Supply Current	0.1A
Maximum Surge Current at Power-up	2.5 A
Maximum Power Consumption	2.5...2.7 W
Output Relay Ratings	
Terminal OUT A	13/14
Type of Contacts	Form A SPST-NO
Rated Thermal Current	5 A
Rated Insulation Voltage	300V AC
Rated Operating Voltage	240V AC
Rated Operating Current	3 A (@ 120V AC) 1.5 A (@ 240V AC) 0.25 A (@ 110V DC) 0.1 A (@ 220V DC)
Minimum Operating Current	10 mA (@ 5V DC)
Rating Designation	B300
Utilization Category	AC-15
Resistive Load Rating (p.f. 1.0)	5 A, 250V DC 5 A, 30V DC
Inductive Load Rating (p.f. = 0.4), (L/R = 7 ms)	2 A, 250V AC 2 A, 30V DC
Short Circuit Current Rating	1000 A
Recommended Control Circuit Fuse	KTK-R-6 (6 A, 600V)

Input Ratings	
Terminal IN1	1
Terminal IN2	2
Terminal SSV (Sensor Supply Voltage)	3
Supply Voltage (Supplied by Module)	20.4...26.4V DC
Type of inputs	Current Sensing (Dry Contacts)
Jam Protection	
Trip Level	150...600% FLA
Trip Delay	0.1...25 s
Inhibit	0.0...250 s
Standards	
UL 508	
CSA 22.2, No. 14	
EN 60947-4-1	

MECHANICAL

Environmental Ratings	
Storage Ambient Temperature	-40...+ 85°C (-40...+ 185°F)
Operating Ambient Temperature (Open) Ambient Temperature (Enclosed) Ambient Temperature	-20...+ 60°C (-4...+ 140°F) -20...+ 40°C(-4...+ 104°F)
Operating Humidity Damp Heat - Steady-State Humidity Damp Heat - Cyclic Humidity	5...95% Non-Condensing Per IEC 68-2-3 Per IEC 68-2-30
Maximum Altitude	2000 m
Degree of Protection	IP 20
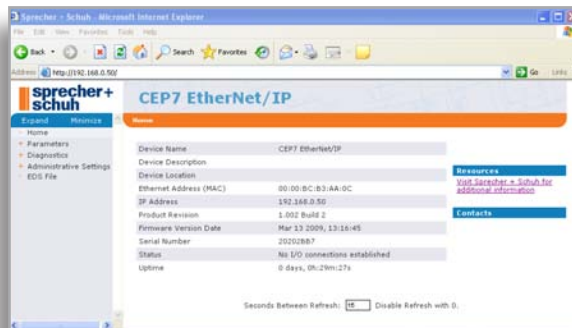
CEP7-ETN Offers Integrated Web and E-mail server

View the status and events of your overload relay on the web at anytime, anywhere!

- The CEP7-ETN contains a web server to allow users to read information and configure parameters via the web.
- Uses a simple mail transfer protocol (SMTP) server to send e-mail or text messages in the event of a warning or trip condition.

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