User interface intelligence made easy
Eaton’s advanced Power Xpert C445 Motor Management Relay
Easy means...

having a motor management relay that features line, load and motor protection, diagnostics, starter control operation modes, network connectivity and more in a simple and intuitive format. It also means having a user interface that takes the guesswork out of startup and makes light workout of system monitoring.

Here are some of the features that make this user interface easy:

- Simple mounting with standard pilot device holes for safe device access outside the motor control center door
- No fuss commissioning using Quick Start Wizard
- Monitor critical motor data without setting up a network or connecting a PC
- View and edit all protection, control, communication and user interface settings
- Set customizable trip and warning thresholds and delays for superior protection without nuisance trips
- Automatic fault identification helps address issues as they occur without the need to interpret cryptic fault codes
- Use optional control buttons as a simple local control source for any starter operation mode with no wiring required
- Standard micro USB port connects to Eaton’s free PC tool, Power Xpert inControl. Upload and save configuration files for reuse and record keeping
Simple and intuitive user interface

Power Xpert™ C445 remote mount user interface (C445UM)

Easy and safe monitoring, control and parameter setting

Door-mounted display enables safe and complete device diagnostics and parameter setting without opening the MCC door. Contextual LCD buttons provide intuitive navigation through monitoring menus. Optionally use control buttons for compact local control without the need for hardwiring.

LED AND BUTTON CONTENTS

RUN  ●
Contextual buttons select Fwd/Rev Sp1/Sp2

ON: Running
Flashing: Starting

STOP  ●

STOPPED LED  ●
ON: Stopped
Flashing: Inhibited

AUTO  ●
Gives control to remote control source

AUTO LED  ●
ON: Controlled by remote source

Notes
● Control buttons: Control buttons enabled if user interface is local control source. If fieldwire is local source, control buttons are disabled.
● Control status LEDs: LEDs always function regardless of local control source type.

Monitoring menus

Press <MODE/BACK> to toggle through. Use ▲ to scroll through menu data.

I (Current)
Avg Current (Iavg)
Iavg % of FLA (%FLA)

V (Voltage)
Avg Voltage (Vavg)
Voltage Unbalance (VUnb)
Phase Order (Ph Ord)

P (Power)
Watts Total (P Watts)
Power Factor (PF)
Thermal Capacity (TC)

T (Thermal)
Time to Reset (T to Rst)
PTC State (PTC)

O (Other)
Run Time  ● (Run Time)
Max Starting I (MaxStart)
Last Start Time (LastStart)

Resettable parameter—users can reset to zero in PRG menu.

Program (PRG) menus groups

Control
See active control source
View digital input status
View relay output status

Monitor
Monitor voltage, current, power, system data
(all monitoring values, not just favorites)
Clear resettable monitor values

Motor Configuration
Set/view motor nameplate data
(also in Quick Start)

Wiring Configuration
Set single-phase/three-phase
Set CT ratios
Set PT ratio

External I/O
Communication setup
Mapping

Operation Mode
Select operation mode, local/remote control sources
Set comm loss/idle behavior
Select output functions

Faults and Events
View active fault/warning/inhibit
View or clear fault queue and trip snapshot

Protections
Enable/disable trips/warnings
Customize protection thresholds and delays

Real Time Clock
Set time and time zone

Communications
Configure Ethernet and Modbus settings (addresses, baud rate, advanced, etc.)

System View
View product details
(serial number, firmware version, etc.)

User Interface Settings
Set screen idle behavior
Contrast/brightness
Set control button delays
Change LED colors

Security
Set passwords
(local, admin, USB)

Services
Factory reset
Soft reset
Repair modules
Launch Quick Start Wizard

User Logic
Local control
Status
Error information

Notes
● Control buttons: Control buttons enabled if user interface is local control source. If fieldwire is local source, control buttons are disabled.
● Control status LEDs: LEDs always function regardless of local control source type.