

# Digital Thermal Overload Motor Protection Relay

This intelligent relay protects, monitors, meters, and controls motors in industrial environments. The low-voltage motor protection relay features an RS-485 Modbus RTU communication interface for backend network integration, with optional Profibus-DP.



## ADDITIONAL IMAGES



## Overview

### Intelligent Motor Protection

The PR 240 is a high-performance digital thermal overload relay designed for the monitoring, metering, and control of low-voltage induction and synchronous motors. Its versatile design allows for flexible panel and DIN-rail mounting, making it ideal for power distribution systems and end-of-line industrial applications. With advanced 3-phase monitoring and RS-485 communication capabilities, it offers robust protection against electrical faults while enabling remote configuration.

## Key Features

### Communication Options

RS-485 MODBUS-RTU • Optional Profibus-DP

### Suitable Applications

Pumping, Air-based systems, Chillers, Bulk-material handling, Power distribution

## Technical Specifications

### Accuracy Metrics

Parameter	Accuracy
Current	± 0.5%
Voltage	± 0.5%
Frequency	± 0.1%
Power	± 1%

### Electrical Parameters

**265 Vac**

Auxiliary Power Max

**820 A**

Max Current Range

**4 kV**

Impulse Withstand

## Environmental Requirements

### Operating Environment

- Operating Temp: -10°C to +55°C
- Storage Temp: -30°C to +70°C
- Relative Humidity: < 93% RH
- Elevation: < 3000 m