

Dry Running Protection for Pumps

Simple to install • Maintenance-free • Uses motor as sensor

RELIABLE AND MAINTENANCE-FREE

The Emotron EL-FI M10 protects all types of centrifugal pump against damage due to dry running. When dry running occurs, shaft power is reduced, activating the EL-FI M10 which then stops the pump motor. In this way, the danger of pump damage and the costly repairs caused by dry running can be avoided.

CHOICE OF ALARM LEVEL

By pressing the Auto Set button under normal working load, the alarm level is calculated automatically on the basis of actual measured motor loading (Auto Set level).

MEASURES WITHOUT A SENSOR

The Emotron EL-FI M10:

- uses the pump motor as a sensor
- measures pump motor input power
- calculates power loss using a unique algorithm
- gives precise shaft power

The need for mechanical load protection, external sensors, and cabling is minimized so that installation is simplified and maintenance costs are reduced.

ADVANTAGES OF USING THE EL-FI M10

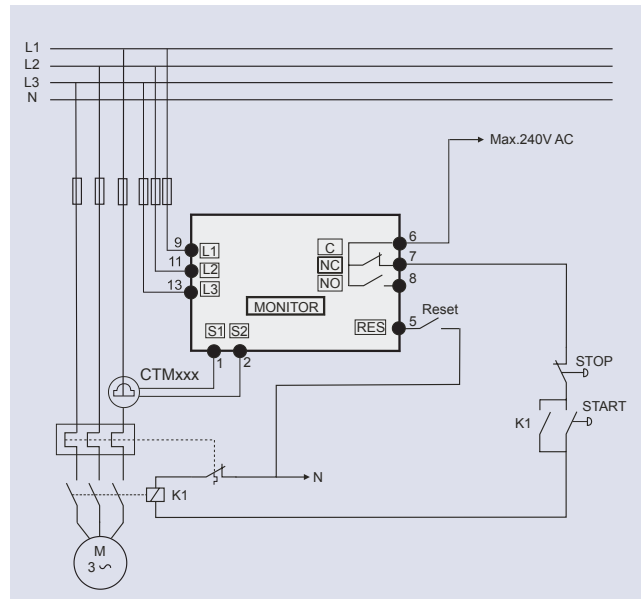
- increased pump life
- reduced spares requirement
- reduced unplanned service interruptions
- reduced production shortfall



Connection of Emotron EL-FI M10



The Emotron EL-FI M10 is very simple to install in e.g. a control cabinet.



Connection example.

Technical data

Dimensions/Weight (WxHxD)	45x90x115mm (1.77"x3.54"x4.53")/0.3kg (10.5oz)
Encapsulation class/Fitting	IP20/35 mm DIN-rail 46277
Power consumption/Fuses	Max 3W/max 10A
Voltage	1x100-240 and 3x100-600 3x600-690 VAC +/-10%
Frequency	50 or 60Hz
Relay output	5A/240VAC Resistive, 1,5A/240VAC Pilot duty/AC12
Current input	Up to 50A with transformer CTM010, CTM025 or CTM050
Digital input	External reset, Max 240VAC or 48VDC, High: >24VAC/DC, Low:<1VAC/DC
Approved	CE (up to 690VAC) and cUL (up to 600VAC)

Emotron is developing and supplying equipment for control and protection of industrial processes and machines driven by electrical motors, featuring the following product groups:

- Shaft power monitors
- Softstarters
- Frequency inverters
- Custom designed drives and power electronics



Distributed by: **KTH Sales, Inc**
 8574 Louisiana Place
 Merrillville, IN 46410
 PH 219-736-0060 Fx: 219-769-0263
www.KTHSales.com