

# ELECTRONIC CURRENT MONITOR

Series ECM 921/ECM 926

- Single Phase / Three Phase models.
- Protection against over/under current.
- Micro-processor based models.
- Single unit to monitor multiple motors.
- 4-20 mA output for remote metering.
- Simple to connect-Easy to set.



## INTRODUCTION

Induction motor is the heart of any industry. Failure of motor due to over-current can lead to non-productive down time. Motors are generally provided with over temperature protection but the same is not useful for protecting motors from high currents of short duration. The JAYASHREE Electronic Current Monitor protects motor reliably.

## APPLICATION

Conveyors, Crushers, Bucket Elevators, Fans, Blowers and similar heavy inertia machines.

## WORKING PRINCIPLE

Current from any phase or all three phases is sensed by external CT's and a maximum of 5 A signal is given as input to the unit. This signal amplitude is compared with an internal reference and output relay is actuated at desired value. Initial by-pass delay is provided to take care of transient conditions during motor start-up.

## CONSTRUCTION

These are available in MS / Plastic enclosure to suit IP-30 grade of protection for mounting either inside panel or flush on panel front. Enclosures with IP-65 grade are also available.

## OPERATION

The output relay is initially OFF and remains OFF during start-up. The signal current amplitude is continuously monitored. The relay actuates in case of over current. Manual reset facility can be provided if desired.

## STANDARD SPECIFICATIONS

Supply Voltage : 240 / 110 / 24 V AC/DC  
 Signal Current : Max. 5 A  
 Initial Delay : 1-20 s  
 Nuisance Delay : 0.5-20 s  
 Setting Range : 0-120% of input signal  
 Output Contacts: 1NO+1NC, 1C/O, 2C/O  
 Contact Rating : 6 A resistive at 240 V AC.  
 Working Temp : 55°C  
 Indication : Supply ON Red  
 Relay ON Green

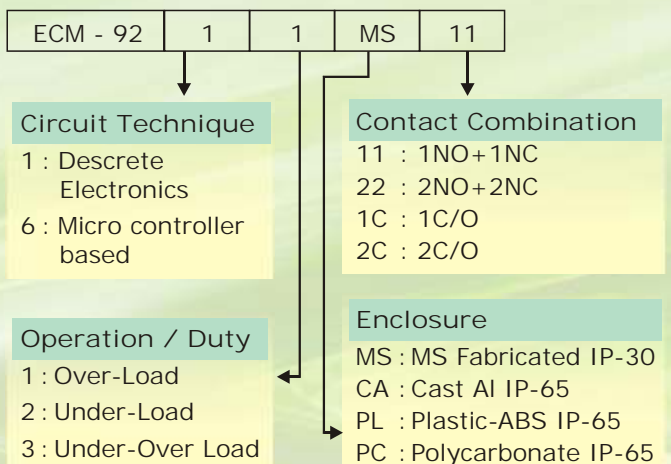
## STANDARD MODELS

BASIC TYPE	DUTY	CBASIC TYPE
ECM 9211	Over-load	Analog
ECM 9213	Under-Over Load	Analog
ECM 9611	Over-load	µC based
ECM 9913	Under-Over Load	µC based

## OPTIONAL FEATURES

- Digital / Analog Display
- 4-20 ma output
- Manual Reset

## SELECTION CHART



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