

## **RX Relay**

### Motor Protection Features

#### Standard Protections

##### Voltage Based

- Under-Voltage (ANSI Device Function 27)
- Phase-Sequence (ANSI Device Function 47)
- Over-Voltage (ANSI Device Function 59)
- Frequency drift (ANSI Device Function 81)

##### Current Based

- Under Current (ANSI Device Function 37)
- Current Imbalance (ANSI Device Function 46)
- Incomplete sequence (ANSI Device Function 48)
- Motor heating ( $I^2t$  based) (ANSI Device Function 49)
- Locked rotor (ANSI Device Function 50)
- Timed Over-current (ANSI Device Function 51)

##### Current + Voltage Combined

- Power Factor alarm/trip (ANSI Device Function 55)

##### Other Standard Protections

- Motor speed\* (ANSI Device Function 14)
- Automatic bypass (ANSI Device Function 19)
- Starts per hour (ANSI Device Function 66)
- Time between starts (ANSI Device Function 66)
- Lock-out (start inhibit) (ANSI Device Function 86)

### Metering/Display

- Average Current (in Amperes)
- Phase Currents (in Amperes)
- Ground fault current in amperes
- Average Voltage
- Phase voltages (A-B, B-C, C-A)
- Motor Power (kW)
- Total Power (kVA)
- Reactive Power (kVAR)
- Power factor
- Energy Used (in kWh)
- Frequency
- Motor remaining thermal capacity (in %)

### **Programmable Inputs/Outputs**

2 - output relays

1 rated for 10A at 240V

1 rated for 5A at 240V

1 - programmable input

- 2 wire start

-external trip

### Other Capabilities:

- Real time Clock
- Basic process control functions
- Restart delay
- Long start timer/trip