



## MIP - 6

### Motor Insulation Protection Relay

The MIP-6 accurately monitors and records the insulation levels of low and medium voltage motors to protect the life of your motor. The MIP-6 includes actual insulation readings, average values, and max/min values that can be viewed and used to gauge the deterioration trends within your motor.



#### Advanced Features

- Measures actual motor insulation resistance
- Automatic DC Test Voltage, limited to 48VDC for Personnel / System safety
- Upon fault, Alarm or Trip program prevents the motor from re-starting
- Alarm / Trip Setpoints programmable in Mohms
- Programmable time delays for Alarm or Trip
- Illuminated LCD displays shows the insulation readings (present on-line, average, or max/min)
- Time Stamped Storage History (Accessible on LCD or via MODBUS). Average insulation information includes:
  - o Hour by hour for previous 24 hours
  - o Day by day for previous 31 days
  - o Month by month for previous 256 months
  - o Year by year for previous 21 years
- Six (6) Programmable Digital Inputs
- Six (6) Programmable Digital Outputs: 4 Form A (N.O., 5A/250VAC), 2 Form C (N.O./N.C., 8A/250VAC)
- RS-485 Communications with MODBUS
- Control Voltage: 85-230VAC/DC (50/60Hz)
- Operating Temperature: 0°C to 50°C

#### How to Order

Example:

MIP-6 - LV - M

Voltage  
 LV = 230-690VAC  
 MV1 = 690-7200VAC  
 MV2 = 7200-13800VAC

Options  
 5 = Analog Output  
 8 = Conformal coating  
 M = Modbus



## Medium Voltage Soft Starters

Product	Description	Ratings
HRVS-DN	Digital, Heavy Duty	2300-15000V, up to 15MW
HRVS-DN MEGA	Digital, Heavy Duty, High Power	2300-15000V, up to 15-50MW
DriveStart	Digital, IGBT-Based Starter	2300-6600V, 60-500A

## Low Voltage Soft Starters

Product	Description	Current & Voltage Range	Bypass	Controlled Phases
RVS-DX	Digital, Standard Duty	8-170A, 230-600V	Internal	3-Phase
RVS-DXM	Digital, Standard Duty	210-1100A, 208-690V	Internal	3-Phase
RVS-DN	Digital, Heavy Duty	8-3000A, 230-1200V	External	3-Phase
RVS-AX	Analog, Standard Duty	8-170A, 230-600V	Internal > 31 A	3-Phase
Solstart	Compact Analog, Standard Duty	8-58A, 230-600V	Internal	2-Phase

## Motor Protection

Product	Description	Monitors
MPS-3000	Full motor protection for medium voltage or low voltage motors	All three phase currents, voltages and up to 10 RTD inputs
TPR6-14	RTD relay	Accepts up to 14 PT100 RTD inputs or thermistor inputs
MIP	Motor insulation protection system	Monitors MV or LV motors. Provides status indication (alarm and trip)

## DC Injection Brakes

Product	Description	Current & Voltage Range
Solbrake	Controlled stopping of 3 phase motors	10-820A, 230-690V

## SCR Power Controls

Product	Description	Current & Voltage Range
TPS	Low voltage SCR power controller for resistive loads	8-1500A, 230-1000V
MV-TPS	Medium voltage SCR power controller for resistive loads	60-300A, 4160-6600V

### MEETING YOUR NEEDS ACROSS INDUSTRIES



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