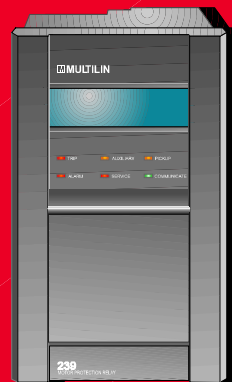


# 239 MOTOR PROTECTION

Protection of medium HP motors



# PHYSICAL CONSTRUCTION

- Very compact design
- Terminals are easy to access
- Nema 12 dusttight
- Door to cover keypad
- Vacuum fluorescent screen & keypad
- Led indicators for trip,alarm,overload pickup,aux,comms & service

# MOTOR PROTECTION

- 15 Standard overload curves
- Independent rotor & stator settings
- Includes s/c, ground, single phase, locked rotor, rapid trip/stall, undercurrent, thermal model, repeat starts

# RELAY INPUTS

- Control power AC/DC
- Phase CT's 5 or 1 amp, Ground 5 or HGF
- Setpoint access, emergency restart & reset
- Stator thermistor
- Option switch inputs 1 & 2
- Optional 3 RTD programmable

# RELAY OUTPUTS

- Relay # 1 Trip, Relay # 2 Alarm
- Relay # 3 Auxiliary(programmable)
- Relay # 4 Service
- Optional analog(0-1 or 4-20ma)
- RS 485, Modbus communications, open protocol available with relay manual

# DIAGNOSTICS

- Information on the last “5”trips displayed:  
these include phase amps,ground amps,and  
RTD inputs if ordered
- Status on all input switches

# METERING

- Display through vacuum display of all phase amps, ground amps, unbalance, motor load as % full load, thermal capacity used
- Display of all RTD inputs

# COMMUNICATIONS

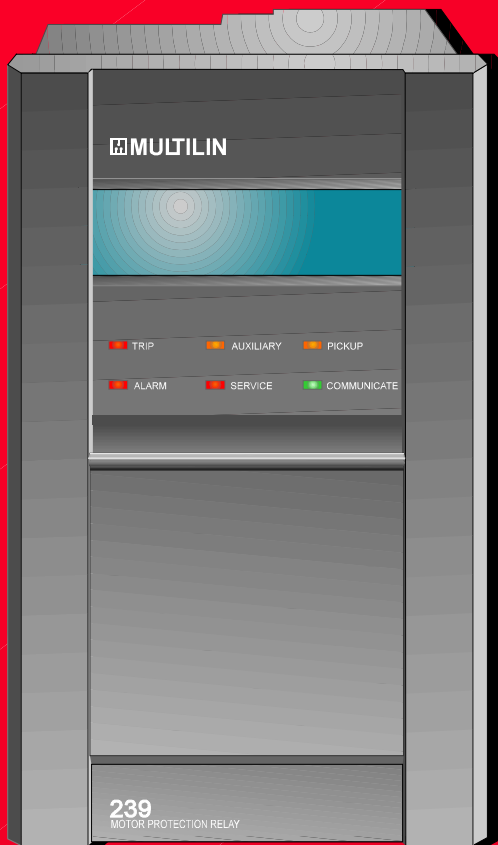
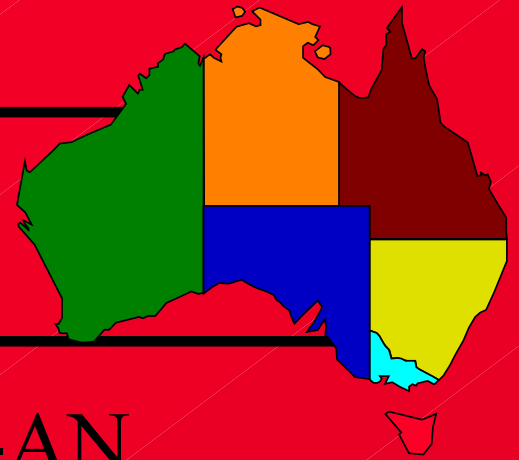
- RS 485, 2 wire, multiple address devices
- Modbus RTU protocol, open structure
- Selectable baud rate up to 19.2K
- Free Setup disc, windows based for all setpoint programming, values & trending
- Setup disc also provides “help” for instructional information with graphs



# TESTING

- Unique relay Simulation Mode is provided through software to check phase o/c, ground o/c, unbalance and analog output
- Secondary injection using a standard single phase current test set
- Variable resistance box to check RTD's

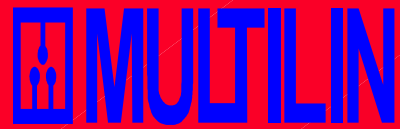
# ORDER CODE



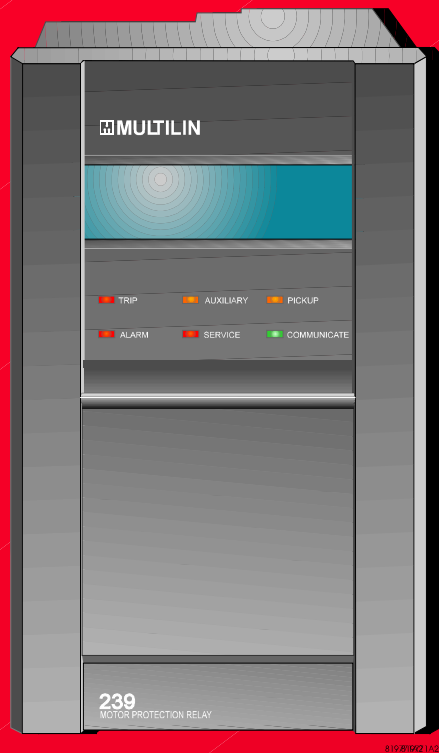
819879A21A2

- 239-RTD-AN
- RTD's, 3 provided, customer programmable
- AN, isolated analog, 0-1/0-20/4-20 customer selectable

THE ABOVE ARE OPTIONAL



# 239 MOTOR PROTECTION



815/816/21/2

Protection of medium HP motors

