

KEW SAFE LINE SERIES

PRODUCT 2.5: - AC MONITOR PROTECTION RELAYS



DESCRIPTION

The **KEW MPR-01** is an advanced AC motor protection relay designed to safeguard motors from electrical faults such as **over/under voltage, current imbalance, and phase failures**. It features a large 3-digit LED display for real-time monitoring of voltage, current, power, frequency, and energy. Compatible with **both SMPS and transformer-type** auxiliary supplies, it **supports RS-485 & Modbus RTU** for remote communication. With user-selectable CT ratios and programmable trip settings, it offers high flexibility across various motor ratings. Dual relay outputs allow seamless control and alarm signaling. It is ideal for industrial motor panels requiring **precise protection and diagnostics**. A compact DIN mount design ensures **easy integration** into standard panels.

FEATURES OF AC PROTECTION RELAY(MPR)

Meter Type	AC Motor Protection Relay (MPR-01)
Monitored Parameters	Voltage (RY, YB, BR), Current, kW, Power Factor, kWh, kVARh, Hours, Run Hours, Rotor Earth Fault
Smart Display & Navigation	3-row, 4-digit bright LED display with Auto/Manual Scroll and LED indicators for trip and relay status
Protection Features	Under/Over Voltage, Over/Under Current, Earth Fault, Phase Reversal, Current Imbalance, Dry Run, Phase Loss
Programmability	CT/PT Ratio Programmable, Settable Trip Values, 2 Relay Outputs (user-configurable), MODBUS RTU support (optional)



SPECIFICATION OF AC PROTECTION RELAY(MPR)

Electrical Characteristics: -

Meter Type	AC Motor Protection Relay (MPR-01)
Auxiliary Supply Voltage	150-300V AC, 45-270V AC/DC, 19-60V AC/DC
Measured Parameters	RMS Voltage (20–600V), RMS Current (0.020–10.00A), Active Power (0.030–6.000kW), Apparent Power (0.030–6.000kVA), Reactive Power (0.030–6.000kVAR), Power Factor (0.3–1.0, Lag/Lead), Line Frequency (45–65Hz), Active Energy (0–999999.99kWh), Apparent Energy (0–999999.99kVAh), Reactive Energy (0–999999.99kVARh)
VA Burden	Auxiliary Supply: <2.5 VA Voltage Input: <0.2 VA/Phase Current Input: <0.2VA/Phase
Relay Contact	2NOS-8 AMPS, 250VAC POTENTIAL FREE
CT Range	CT Primary: 1A–50kA (AC Programmable), CT Secondary: 0.5A–5A (AC Programmable)
Impluse Withstand	3.5KV, 1.2/50micro second

Environmental Characteristics: -

Operating Temperature	0°C to 50°C
Storage Temperature	-10°C to 60°C

Mechanical Characteristics: -

Mounting Type	Panel Mount
Panel Dimensions	96x96 Depth (Behind Bezel)-52

Display Characteristics

Display Type	3-row, 4-digit bright LED display with Auto/Manual Scroll
Indications	Error Code Display, Fault LED Indicators

APPLICATIONS OF AC PROTECTION RELAY

Motor Control Panels



Building Management Systems (BMS)



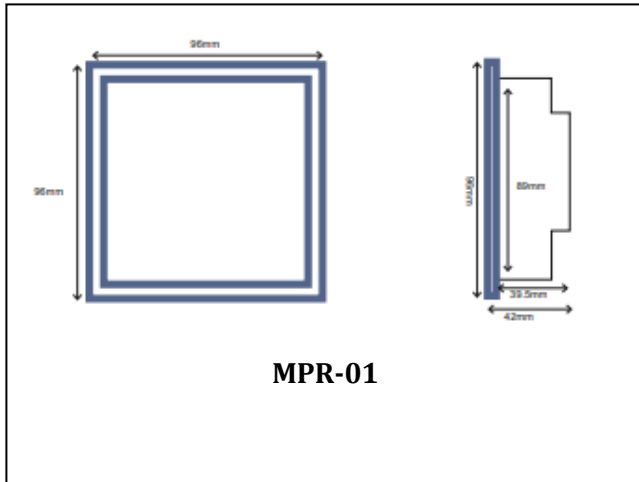
OEM Electrical Panels



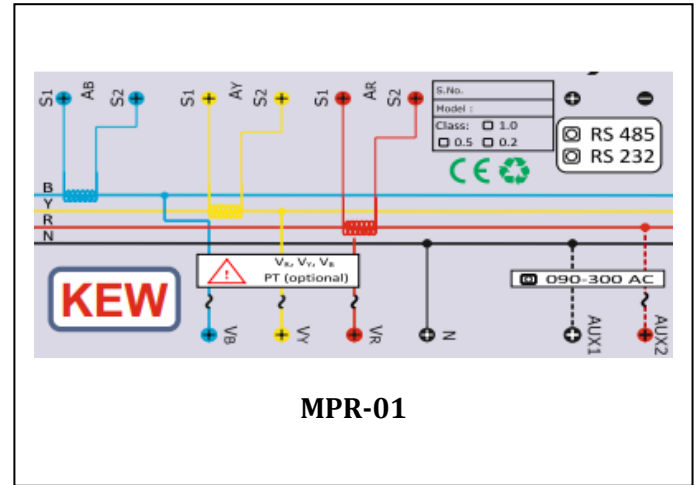
Commercial Sub-Metering / Retail Malls



Panel CutOut



Terminal Connection



Ordering information:

MODEL	CT Input Range	Display	AUX SUPPLY
KEW-MPR	CT 1A–50kA / CT 0.5A–5A (Programmable)	3-Row, 4-Digit LED	80–300VAC / 24–240VDC (Universal)

*WHILE ORDERING PLEASE MENTION RANGE, CLASS & AUX SUPPLY & FOR BULK CUSTOMIZED INQUIRIES