Low Voltage Motor Protection Relay

POWER SYSTEM PROTECTION EQUIPMENT



Our Low Voltage Motor Protection Relay is a digital protection and control device designed for low-voltage AC motors. It is suitable for three-phase motors with rated voltages up to 380 V and rated currents up to 800 A. The relay integrates overload, short-circuit, phase loss, phase unbalance, earth fault, locked-rotor, overvoltage and undervoltage protection, together with motor measurement, control and communication functions. Protection Configuration （ANSI）： 51,51LR,46,47,37,51LR,50,50N/51N,51G,59,27,48,60,49
Communication Mode Optional: RS-485, CAN bus, Ethernet, IEC 60870-5-103 (IEC-103), IEC 61850

KEY FEATURES

- Overload protection
- Locked rotor protection
- Phase loss protection
- Phase unbalance protection
- Short circuit protection
- Earth fault protection
- Overvoltage protection
- Undervoltage protection

LOW VOLTAGE MOTOR PROTECTION FUNCTIONS

Protection Function	Purpose
Overload Protection	Protects the motor against excessive thermal loading
Locked Rotor Protection	Detects stalled or locked rotor conditions
Phase Loss Protection	Detects loss of one phase
Phase Unbalance Protection	Detects abnormal three-phase current imbalance
Short Circuit Protection	Detects severe current faults
Earth Fault Protection	Detects motor earth leakage/fault conditions
Overvoltage Protection	Protects against excessive voltage
Undervoltage Protection	Protects against low voltage
Underload Protection	Detects abnormal low-load operation
Start Timeout Protection	Detects abnormal motor starting
External Fault Protection	Receives external protection/fault signals

LOW VOLTAGE MOTOR PROTECTION RELAY APPLICATIONS

Application	Protection Requirement
Pumps	Overload, phase loss, locked rotor
Fans	Overload, phase unbalance
Compressors	Overload, short circuit, earth fault

Application	Protection Requirement
Conveyors	Overload, locked rotor
MCCs	Motor protection and remote monitoring

ORDERING INFORMATION

MOQ	LEAD TIME	TRADE TERMS	PAYMENT	WARRANTY
1 unit	7-15 working days	EXW / FOB / CIF / DDU	T/T, L/C, WU, PayPal	12 months