

# Voltage and Motor Protection Relays

## Motor Protection Relays

### Motor Protection Relay (MKR-01)

#### Application and Operation Principles

**MKR-01** : Main problems for industrial type electric motors are the phase-phase voltage fluctuations and extreme overload occurrences. MKR-01 is produced to remove off such inconveniences. If the phase voltage (R-S-T) are within the set interval the relay is switched on and the LED turns on. When the phase-phase voltage difference exceeds %15 of the supply voltage the relay is switched off, the LED turns off and the motor stops. In case of the phase-phase voltage difference falls below %15 of the supply voltage the relay is switched on and the LED is on.

With PTC : The relay switches on when the motor winding temperature (Coil) exceeds PTC temperature limit the output relay switches off promptly and the LED turns off. When coil temperature reach at the normal temperature limit the relay switches on, the LED is on and the motor starts.

#### Technical Datas

Supply Voltage	: 3X380 VAC 50-60 Hz
Relay Output	: 250VAC-5A
Unbalance Protection	: $\pm 15\%$
Under Voltage	: 170V $\pm$ 10V
Over Voltage	: 270V $\pm$ 10V
Hysteresis	: max. 15V
PTC Cut-off Resistance	: 1800-2000 ohm.
PTC Reversing Resistance	: 1000-1400 ohm
Operation Temperature	: -40°C...+50°C
Net Weight	: 285 gr

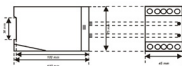
#### Order Informations

Type	Supply Voltage	Contact Output
MKR-01	3x 380V AC 50-60Hz	250VAC-5A
MKR-V01		250VAC-5A
MKR-V01P		250VAC-5A

#### Front View Informations



#### Dimensions



#### Connection Diagram

