

KVM Series Single Phase Undervoltage Monitor

Voltage
Monitors



10
YEAR
WARRANTY

- Economical Single Phase Brownout/Undervoltage Protection
- Isolated 8 A SPDT Relay Contacts
- Protects sensitive 110-120 V AC or 220-240 V AC Loads
- Adjustable Low Voltage Trip Point
- LED Indicator

Approvals:

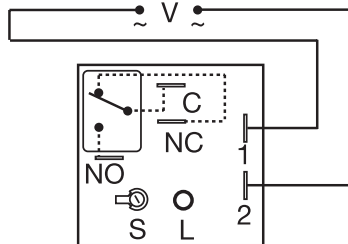
Description

The KVM Series is a single phase undervoltage monitor designed to protect sensitive equipment against brownout undervoltage conditions. The compact design and encapsulated construction make the KVM an excellent choice for OEM equipment.

Operation

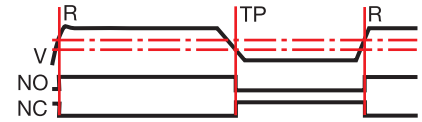
The output relay is energized and the LED glows green when the input voltage is above the reset voltage threshold. If the input voltage drops below the undervoltage set point, the output relay and LED will de-energize. The output relay will remain de-energized as long as the input voltage is below the reset voltage. Reset is automatic when the input voltage returns to a normal range.

Connection



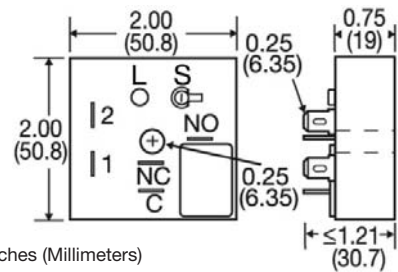
V = Voltage L = LED S = Undervoltage Set Point
 NO = Normally Open NC = Normally Closed
 C = Common, Transfer Contact
 Dashed lines are internal connections.

Function



TP = Undervoltage Set Point R = Reset Point

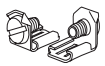
Mechanical View



Inches (Millimeters)

7

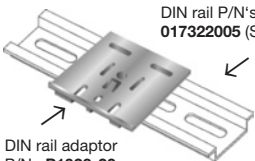
Accessories



Quick connect to screw adaptor
 P/N: P1015-18



Female quick connect
 P/N: P1015-64 (AWG 14/16)



DIN rail P/N's:
 017322005 (Steel)

DIN rail adaptor
 P/N: P1023-20

See accessory pages for specifications.

Undervoltage Set Point (Adjustable)

78 ... 99 V AC
 156 ... 199 V AC

Maximum Line Voltage

132 V AC
 264 V AC

Part Number

KVM4
 KVM6

Technical Data

Line Voltage

Type
 Input Voltage/Frequency
 Power Consumption
 Power Off Reset Time

Single Phase
 110 ... 120 V AC or 220 ... 240 V AC/50 ... 60 Hz
 2.5W at 132 V AC; 4.5W at 264 V AC
 ≤ 150 ms

Undervoltage Detection

Undervoltage Set Point
 Undervoltage Reset Point
 Repeatability

78 ... 99 V AC
 156 ... 199 V AC
 Fixed at 104 V AC
 Fixed at 209 V AC
 +/- 0.5% under fixed conditions
 +/- 1% over temperature range
 +/- 2% at 25°C

Voltage Sensing Accuracy

Output

Type/Form
 Rating
 Life
 LED Indicator

Electromechanical Relay/SPDT
 8 A resistive at 120 V AC, 1/3 hp at 120/240 V AC
 Mechanical; 1 x 10⁵; Electrical; 1x10⁵
 Glows green when output energized

Protection

Surge
 Circuitry
 Isolation Voltage
 Insulation Resistance

IEEE C62.41-1991 Level A
 Encapsulated
 ≥ 1500 V RMS Input to Output
 ≥ 100 MΩ Minimum

Mechanical

Mounting
 Package
 Termination

Surface mount with one #10 (M5 x 0.8) screw
 2 x 2 x 1.21 in. (50.8 x 50.8 x 30.7 mm)
 0.25 in. (6.35 mm) male quick connect terminals

Environmental

Operating/Storage Temperature
 Humidity
 Weight

-25 to +55°C/-40 to +85°C
 95% relative, non-condensing
 2.6 oz (74 g)