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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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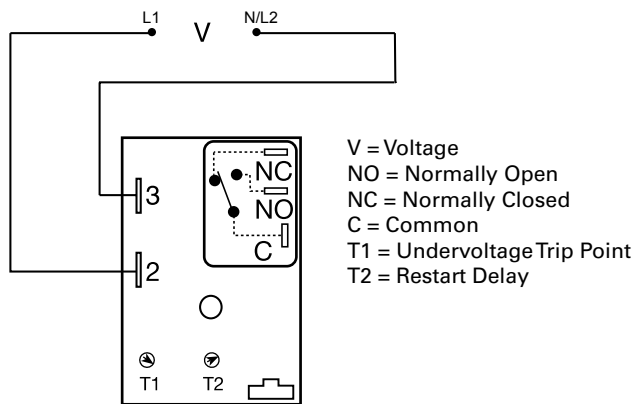


HLVA6I23

Single-Phase Monitor



Wiring Diagram



Description

The HLVA6I23 is a single-phase undervoltage monitor designed to protect sensitive equipment from brownout or undervoltage conditions. Time delays are included to prevent nuisance tripping and short cycling. The 30A, 1hp rated, SPDT relay contacts allow direct control of motors, solenoids and valves. The output relay can be ordered with isolated SPDT contact to allow monitoring of one voltage and switching a separate voltage. Two undervoltage trip point ranges allow monitoring of 110 to 120VAC or 208 to 240VAC systems.

Operation

Upon application of input voltage the output relay remains de-energized. When the input voltage value is above the pull-in voltage, the restart delay begins. At the end of the restart delay, the output relay energizes. When the input voltage falls below the trip point, the trip delay begins. If the input voltage remains below the pull-in voltage for the entire trip delay the relay de-energizes. If the input voltage returns to a value above the pull-in voltage, during the trip delay, the trip delay is reset and the relay remains energized. If the input voltage falls below the trip point voltage during the restart delay, the delay is reset and the relay remains de-energized. Reset is automatic upon correction of an undervoltage fault.

Reset: Removing input voltage resets the output relay and the time delays.

Features

- 30A, SPDT, NO output contacts
- 100 to 240VAC input voltage
- 70 to 220VAC adjustable undervoltage trip point in 2 ranges
- Restart delays from 3 - 300s
- Trip delay 1 - 20s fixed
- Isolated or non-isolated relay contacts

Accessories



P1015-13 (AWG 10/12), P1015-64 (AWG 14/16) Female Quick Connect
These 0.25 in. (6.35 mm) female terminals are constructed with an insulator barrel to provide strain relief.



P1023-6 Mounting bracket
The 90° orientation of mounting slots makes installation/removal of modules quick and easy.



P1015-18 Quick Connect to Screw Adapter
Screw adapter terminal designed for use with all modules with 0.25 in. (6.35 mm) male quick connect terminals.



C103PM (AL) DIN Rail
35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.



P1023-20 DIN Rail Adapter
Allows module to be mounted on a 35 mm DIN type rail with two #10 screws.

HLVA6I23

Specifications

Input

Min & Max RMS Voltage 70 to 264VAC
AC Line Frequency 50/60 Hz
Power Consumption AC ≤ 4VA

Undervoltage Sensing

Type Peak voltage sensing

Ranges

(4) 70 to 120VAC
(6) 170 to 220VAC

Pull-In Voltage 105% or trip point voltage

Trip Point Accuracy ± 3% of trip point

Time Delay

Restart Delays 3 - 300s adjustable

Trip Delay 1 - 20s fixed in 1s increments

Repeat Accuracy ±0.5% or 20ms, whichever is greater

Tolerance

(Factory Calibration) ±5%

Reset Time ≤ 150ms

Time Delay vs. Temp. & Voltage ≤ ±10%

Output

Type Electromechanical relay

Form SPDT

Ratings

	SPDT-NO	SPDT-NC
General Purpose	125/240VAC 30A	15A
Resistive	125/240VAC 30A	15A
	28VDC 20A	10A
Motor Load	125VAC 1 hp*	1/4 hp**
	240VAC 2 hp**	1 hp**

Life Mechanical - 1 x 10⁶
 Electrical - 1 x 10⁵, *3 x 10⁴, **6,000

Protection

Surge IEEE C62.41-1991 Level A

Circuitry Encapsulated

Isolation Voltage ≥ 1500V RMS input to output; isolated units

Insulation Resistance ≥ 100 MΩ

Mechanical

Mounting Surface mount with one #10 (M5 x 0.8) screw

Dimensions **H** 76.7 mm (3"); **W** 51.3 mm (2");

D 38.1 mm (1.5")

Termination 0.25 in. (6.35 mm) male quick connects

Environmental

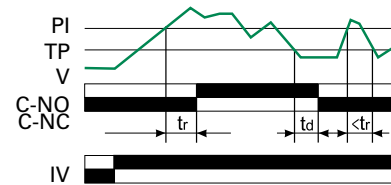
Operating/Storage

Temperature -40° to 60°C / -40° to 85°C

Humidity 95% relative, non-condensing

Weight ≈ 3.9 oz (111 g)

Function Diagram



tr = Restart Delay
 td = Trip Delay
 PI = Pull-in 105% or trip point
 TP = Trip Point
 V = Monitored Voltage
 IV = Input voltage
 C-NO = Normally Open Contacts
 C-NC = Normally Closed Contacts