



INSTALLATION INSTRUCTIONS CMD SERIES SINGLE PHASE CURRENT MONITOR RELAY

August 2022

901-0000-354



Potentially hazardous voltages are present. Electrical shock can cause death or serious injury.
Installation should be done by qualified personnel following all National, State & Local Codes.



*Présence de tensions potentiellement dangereuses. Une décharge électrique peut causer la mort ou des blessures graves.
L'installation devrait être effectuée par du personnel qualifié suivant tous les codes nationaux, provinciaux et locaux.*

**BE SURE TO REMOVE ALL POWER SUPPLYING THIS EQUIPMENT BEFORE CONNECTING OR DISCONNECTING WIRING.
READ INSTRUCTIONS BEFORE INSTALLING OR OPERATING THIS DEVICE. KEEP FOR FUTURE REFERENCE.**

Installation and Wiring

1. Ensure power is turned OFF.
2. Snap the relay onto the 35mm DIN rail track.
3. Use one or two #14-20 or two #16-20 solid or stranded copper or copper-clad aluminum conductors to wire the relay. Recommended terminal tightening torque is 4.43 in-lb.

Product Operating Limits

Max monitored Voltage, 300V; Max current, 120% of chosen range; Frequency range, 48-400 Hz, Control power range, 24-240V AC/DC.

4. Connect monitored current input^① to either terminal I1, I2, or I3 depending on magnitude current to be monitored per the following:
 - a. 5mA – 100mA = I1 (See Figure 1)^②
 - b. 50mA – 1A = I2 (See Figure 2)^②
 - c. 0.5A – 10A = I3 (See Figure 3)^②
5. Connect control power to terminals A1, A2. (If using Latching function, connect reset switch in series between control power and terminal A1).
6. Connect output terminals (15, 16, 18) and/or (25, 26, 28) as needed. (See wiring diagram on relay side).

Settings

7. Set function dial on product for the desired function:
 - O = Overcurrent
 - U = Undercurrent
 - W = Window
 - W+L = Window + Latch
 - U+L = Undercurrent + Latch
 - O+L = Overcurrent + Latch
8. Select start up delay time from Start dial on product (top dial).
9. Select Min and Max settings from corresponding dials on product.
10. Select Trip Delay time (0.1 – 10s) from Delay dial on product.

Operation

11. When all connections are completed properly, turn power ON.

Indicators

- Green LED ON: indication of supply voltage
- Green LED Flashes: indication of start-up suppression time
- Yellow LED ON/OFF: indication of relay output
- Red LED ON/OFF: indication of failure of the corresponding threshold
- Red LED Flashes: indication of tripping delay of the corresponding threshold

Troubleshooting

If the unit fails to operate properly, check that all connections are correct per the appropriate wiring diagram on the product. If problems continue, go to www.macromatic.com/contact for technical support.

Warranty

All catalog-listed products manufactured by Macromatic are warranted to be free from defects in workmanship or material under normal service and use for a period of two (2) years from date of manufacture.

- NOTES:** ① Connect monitored current output to terminal K.
② Monitored current input.

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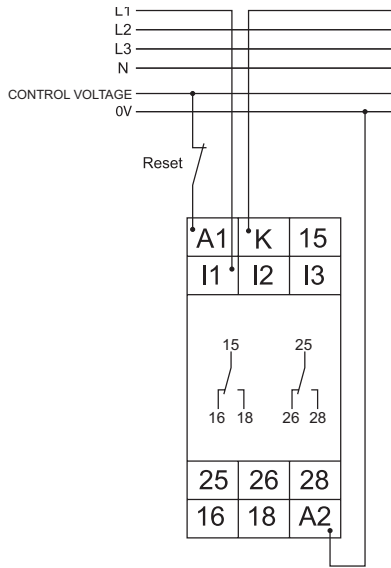


Figure 1
(5mA-100mA)

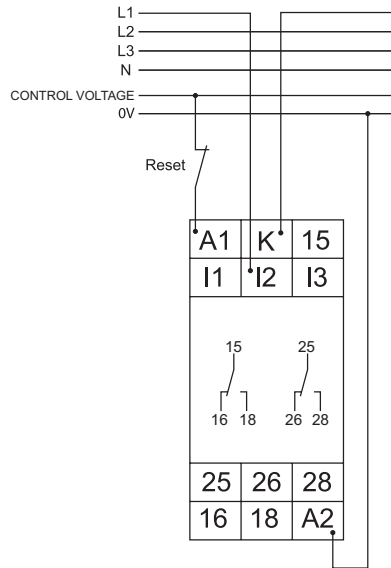


Figure 2
(50mA-1A)

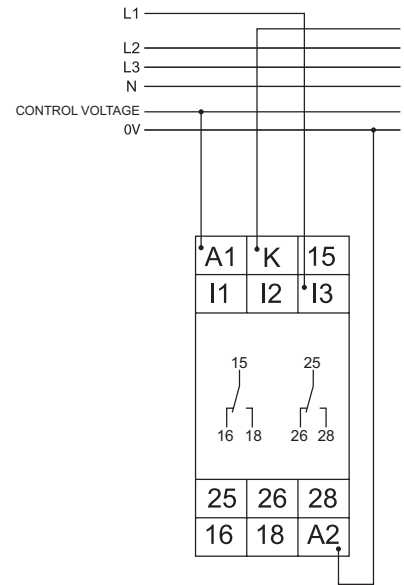


Figure 3
(0.5A-10A)

WIRING DIAGRAMS