

MODEL 279

DC Current Monitor

- Adjustable Hysteresis and Trip Points
- Automatic or Manual Reset
- Remote Adjust and Reset Available
- 5-Year Unconditional Warranty



SPECIFICATIONS

Model	279B-24	279B-120	279C-24	279C-120
Supply voltage	24VAC	120VAC	24VAC	120VAC
Input frequency	50 - 60Hz			
Current range	1-10 amps			
Maximum current	15 amps continuous			
Maximum surge current	100A for 100 msec.			
Power consumption	5.3 W	2.5 W	5.3 W	2.5 W
Transient protection	2500 VRMS for 10 msec.			
Hysteresis adjustment	0% to 100%			
Reset	Automatic or manual			
Repeat accuracy	1% maximum			
Output contacts	SPDT 10A at 240 VAC resistive			
Expected relay life	Mech: 10 million operations Elec: 100,000 operations at rated load			
Operating temperature	-40° to +131° F			
Humidity tolerance	0-97% w/o condensation			
Mounting	* ** socket sold separately			
Case material	ABS plastic			
Weight	7.5 oz.			

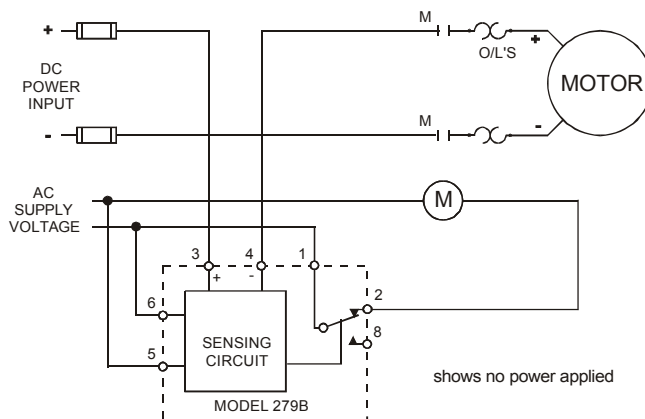
DESCRIPTION

The **Model 279 DC Current Monitor** is a single set-point DC current monitor. The monitor can sense from 1 to 10 amps DC, and is available for 24 or 120 VAC, 50 or 60 Hz supply voltages.

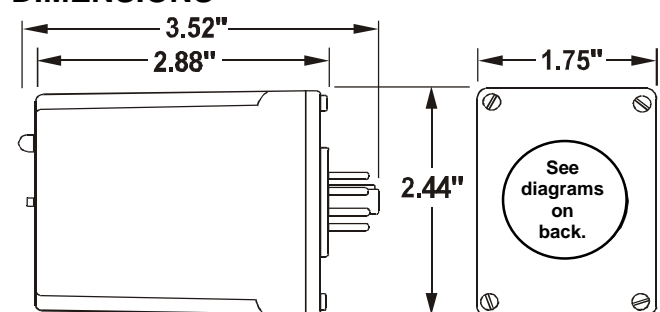
The standard version, the Model 279B, has a screwdriver adjustable trip and hysteresis setting on top of the device. The hysteresis setting adjusts from 0% to 100%, and can be set fully clockwise for manual reset operation. A remote adjust version, the Model 279C, has a remote trip adjustment and a remote reset button.

The Model 279B plugs into a standard 8-pin socket; the Model 279C plugs into a standard 11-pin socket. An LED indicator is provided on both versions to indicate when the relay is energized (current above the trip setting).

TYPICAL APPLICATION - Model 279B



DIMENSIONS



(dimensions have tolerance of ± 0.06)

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MODEL 279

DC Current Monitor

READ ALL INSTRUCTIONS BEFORE INSTALLING, OPERATING OR SERVICING THIS DEVICE.
KEEP THIS DATA SHEET FOR FUTURE REFERENCE.

GENERAL SAFETY

POTENTIALLY HAZARDOUS VOLTAGES ARE PRESENT AT THE TERMINALS OF THE MODEL 279.
ALL ELECTRICAL POWER SHOULD BE REMOVED WHEN CONNECTING OR DISCONNECTING WIRING.
THIS DEVICE SHOULD BE INSTALLED AND SERVICED BY QUALIFIED PERSONNEL.

Installation Instructions

INSTALLATION

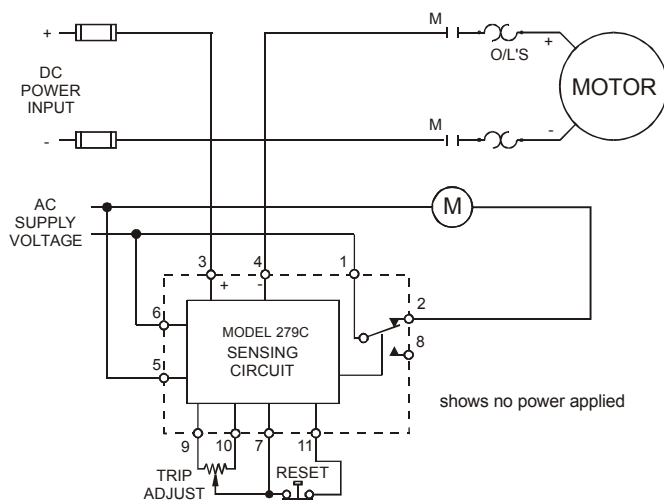
Using the **Model 279 DC Current Monitor** pin drawings (contacts shown in the de-energized condition), connect operating voltage, current input, and load wiring to the socket. **Be sure to observe DC current polarity.**

The Model 279's internal relay will energize when the input current rises above the trip setting. The LED indicator will illuminate whenever the relay is energized.

Apply the AC supply voltage for a 15 minute warm-up period before making the trip adjustments.

Note: When installing the **Model 279 DC Current Monitor** in areas of high humidity or contamination, the manufacturer recommends that the base area and all exposed metal parts of the socket be coated liberally with a good quality silicone grease, such as Dow Corning DC-4 or DC-4X. Insert the unit into the socket and wipe off excess grease from around the base. This will prevent the entrance of moisture and other contaminants into the base and socket area.

TYPICAL APPLICATIONS - Model 279C



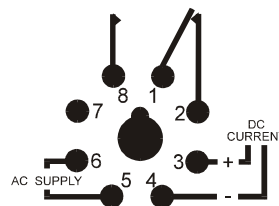
ADJUSTMENT

The **Model 279 DC Current Monitor** is screwdriver adjustable. The most accurate calibration is to apply the current level at which the unit is to trip, then adjust the relay to be energized.

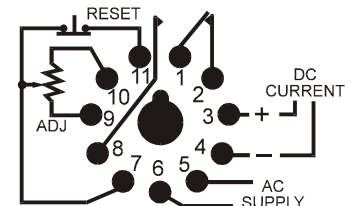
An alternate method is to turn the trip adjust fully clockwise and apply normal operating current, at 0% hysteresis. Adjust the trip adjust counter-clockwise until the relay just trips, then adjust clockwise until the relay resets. This results in the Model 279 tripping on relatively small current changes.

The hysteresis (*dead band*) adjustment determines at what current level the Model 279 resets. For example; if 3 amps is applied and the Model 279 is set to trip at 5 amps with a 20% dead band, after tripping the current must drop at least 1 amp before the Model 279 can reset.

PIN DIAGRAMS



Model 279B



Model 279C

WARRANTY

The **Model 279 DC Current Monitor** is covered by Time Mark Corporation's exclusive **5-Year Unconditional Warranty**. Should this device fail, for any reason, within five years from the date of purchase, we will repair or replace it free. Contact the Time Mark Sales department, Monday through Friday; 8 a.m. to 5 p.m., CST, for further details.

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