

GreenMAX® Relay Modules

Offers Latching, Dimming and Daylight Harvesting Capabilities



Standard Relay



Dimming Relay



Metering Relay

DESCRIPTION

The Leviton line of GreenMAX® Relay Modules offers features and performance not available from any competing product on the market today. For increased reliability and durability, GreenMAX Relay Modules have a 25,000A Short Circuit Current Rating (SCCR) at 277VAC. All GreenMAX Relay Modules are 1-pole or 2-pole latching relay types that reduce parasitic energy use. All relay modules are the same physical size, allowing the optimal mix of relays to be customized for each application. Models include a basic control relay module, a Return- To-Closed relay module, and a self-contained 0-10VDC (sinking) dimming relay module featuring daylight harvesting capabilities. The GreenMAX Metering Relays allow energy usage monitoring to each relay in the cabinet. Monitored parameters include: Energy, Apparent Energy, Reactive Energy, Voltage, Current, Power Factor, and Harmonic Distortion.

All relays must be used in a GreenMAX system cabinet.

APPLICATIONS

- Heavy retrofit applications
- New construction projects
- Government facilities
- Office buildings
- Hospitals/medical offices
- Universities
- Restaurants
- Large campuses
- Any other location requiring daylight harvesting and demand response

FEATURES

- All GreenMAX relay modules have a 25,000A at 277VAC Short Circuit Current Rating (SCCR) for increased reliability and durability
- Rated at 30A General Fluorescent Ballast and 20A Incandescent, HID, Electronic Ballast
- Can be used to comply with IECC, ASHRAE 90.1, and 2016 Title 24, Part 6 occupancy/vacancy sensing, 0-10V dimming, daylight harvesting, partial-ON, partial-OFF, scheduling, demand response, and receptacle control requirements
- All relay models are latching with a manual actuator to reduce parasitic energy waste over NO/NC relays
- Manual actuation lever on all GreenMAX relays allow users to manually turn lights ON or OFF without a CPU or power
- No exposed printed circuit boards or components. The encased plastic housing provides the perimeter of safety. Wire terminations are safely contained within the plastic housing. Wires connect directly to terminators rather than terminals that are soldered to a circuit board, which are prone to breaking connections to the board
- Self-contained 20A, 0-10VDC (sinking) dimming relay module in 1-pole configurations features daylight harvesting capabilities for compatible fluorescent and LED drivers
- Conductors for the 20A, 0-10VDC (sinking) dimming relay circuit must be run in the Line and Load conductor area in the GreenMAX cabinet. The insulation of these conductors must be in compliance with all applicable electrical codes. The NEC will allow this condition if the insulation of the low voltage wires is rated for the highest voltage available in the compartment
- Metering relays provide 3% accuracy and are not suitable for revenue grade applications. Data is provided over BACnet through analog output objects and may be aggregated using Leviton's Measurement & Verification products
- Green and red LED indicators showing ON/OFF status

SPECIFICATIONS

Environmental

- Ambient Temperature Range: 32-122°F (0-50°C)
- Relative Humidity: < 90% non-condensing

Listings

- UL916, UL508, UL924, cUL, can be used to comply with IECC, ASHRAE 90.1, and 2016 Title 24, Part 6 occupancy/vacancy sensing, 0-10V dimming, daylight harvesting, partial-ON, partial-OFF, scheduling, demand response, and receptacle control requirements

Warranty

- Relay Modules backed by 10-year warranty

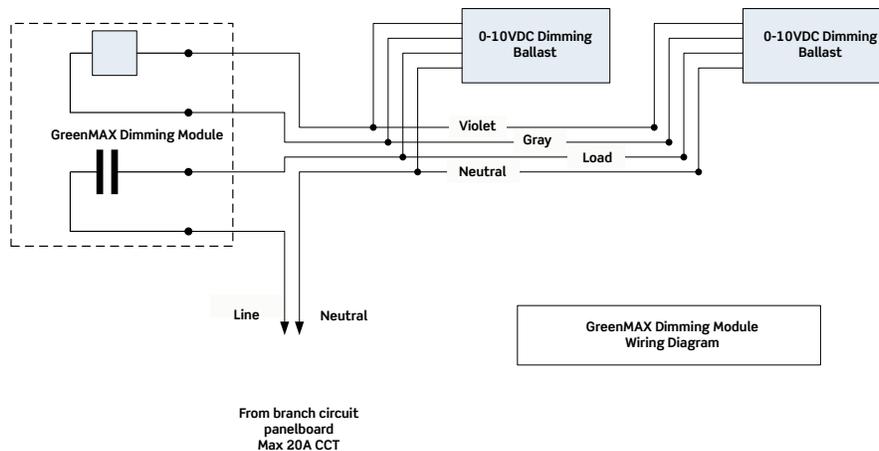
ORDERING INFORMATION

CAT. NO.	DESCRIPTION	LOAD RATINGS
SINGLE POLE RELAYS		
RELAY-1C*	Return to Closed (RTC) Latching Relay	24-277VAC, 347VAC, 20A Tungsten Halogen Incandescent, 20A Electronic Ballast and HID 24-277VAC, 347VAC, 30A Magnetic Ballast, 20A Electronic Ballast, 120VAC 1/2 Hp Motor, 277VAC 1 Hp Motor, 240VAC 1Hp Motor Wire Range: #14 - #6 AWG Copper, Torque 16 in.-lbs. 25,000A SCCR Rating at 277VAC
RELAY-1D**	Dimming and Switching Latching Relay	24-277VAC, 347VAC, 20A 0-10V (sinking) Dimming Fluorescent and LED Driver Wire Range #14 - #6 AWG Copper, Torque 16 in.-lbs. Control Wire Range: #14 - 12 AWG Copper, Torque 14 in.-lbs. Maximum 0-10VDC (sinking) Dimming control circuit load: 200mA 25,000A SCCR Rating at 277VAC
DOUBLE POLE RELAYS		
RELAY-2CB	Return to Closed (RTC) Latching Relay	208/240/480/600VAC, 20A Tungsten Halogen Incandescent, 20A Electronic Ballast and HID 208/240/480/600, 30A Magnetic Ballast, 20A Magnetic Ballast, 208/240VAC 1Hp Motor Wire Range: #14 - #6 AWG Copper, Torque 16 in.-lbs.
RELAY-BFM	Blank Filler Module	-

Replace * with B for Standard Relay or M for Metering Relay
 Replace ** with S for Standard Relay or M for Metering Relay

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WIRING DIAGRAM



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Visit our Website at: www.leviton.com/greenmax

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