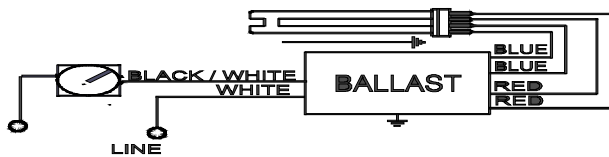


## Electrical Specifications

| <b>VEZ-1T42-M2-LD</b> |                    |
|-----------------------|--------------------|
| Brand Name            | MARK 10 POWERLINE  |
| Ballast Type          | Electronic Dimming |
| Starting Method       | Programmed Start   |
| Lamp Connection       | Series             |
| Input Voltage         | 277                |
| Input Frequency       | 60 HZ              |
| Status                | Active             |

| Lamp Type     | Num. of Lamps | Rated Lamp Watts | Min. Start Temp (°F/C) | Input Current (Amps) | Input Power (Watts) (min/max) | Ballast Factor (min/max) | MAX THD % | Power Factor | Lamp Current Crest Factor | B.E.F. |
|---------------|---------------|------------------|------------------------|----------------------|-------------------------------|--------------------------|-----------|--------------|---------------------------|--------|
| * CFQ26W/G24Q | 1             | 26               | 50/10                  | 0.11                 | 08/31                         | 0.05/1.00                | 10        | 0.98         | 1.6                       | 3.23   |
| CFTR26W/GX24Q | 1             | 26               | 50/10                  | 0.11                 | 08/31                         | 0.05/1.00                | 10        | 0.98         | 1.6                       | 3.23   |
| CFTR32W/GX24Q | 1             | 32               | 50/10                  | 0.14                 | 09/38                         | 0.05/1.00                | 10        | 0.98         | 1.6                       | 2.63   |
| CFTR42W/GX24Q | 1             | 42               | 50/10                  | 0.18                 | 10/49                         | 0.05/1.00                | 10        | 0.99         | 1.6                       | 2.04   |

### Wiring Diagram

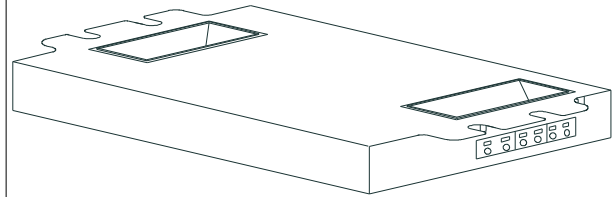


Diag. 134

The wiring diagram that appears above is for the lamp type denoted by the asterisk (\*)

### Standard Lead Length (inches)

### Enclosure



### Enclosure Dimensions

| OverAll (L) | Width (W) | Height (H) | Mounting (M) |
|-------------|-----------|------------|--------------|
| 4.98 "      | 3.00 "    | 1.29 "     | 4.60 "       |
| 4 49/50     | 3         | 1 29/100   | 4 3/5        |
| 12.6 cm     | 7.6 cm    | 3.3 cm     | 11.7 cm      |

Revised 08/17/2006



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## PHILIPS LIGHTING ELECTRONICS N.A.

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| <b>VEZ-1T42-M2-LD</b> |                      |
|-----------------------|----------------------|
| Brand Name            | MARK 10<br>POWERLINE |
| Ballast Type          | Electronic Dimming   |
| Starting Method       | Programmed Start     |
| Lamp Connection       | Series               |
| Input Voltage         | 277                  |
| Input Frequency       | 60 HZ                |
| Status                | Active               |

## **Electrical Specifications**

### **Notes:**

#### Section I - Physical Characteristics

- 1.1 Ballast shall be physically interchangeable with standard electromagnetic or standard electronic ballasts, where applicable.
- 1.2 Ballast shall be available in a plastic/metal can or all metal can construction to meet all plenum requirements.
- 1.3 Ballast shall be provided with poke-in wire trap connectors or integral leads color coded per ANSI C82.11.

#### Section II - Performance Requirements

- 2.1 Ballast shall be Programmed Start.
- 2.2 Ballast shall contain auto restart circuitry in order to restart lamps without resetting power.
- 2.3 Ballast shall operate from 60 Hz input source of 120V, 277V or 347V as applicable with sustained variations of +/- 10% (voltage and frequency).
- 2.4 Ballast shall be high frequency electronic type and operate lamps at a frequency above 42 kHz to avoid interference with infrared devices and eliminate visible flicker.
- 2.5 Ballast shall have a Power Factor greater than 0.98 at full light output and greater than 0.90 throughout the dimming range for primary lamp.
- 2.6 Ballast shall have a minimum ballast factor of 1.00 at maximum light output and 0.05 at minimum light output for primary lamp application.
- 2.7 Ballast shall provide for a Lamp Current Crest Factor of 1.7 or less.
- 2.8 Ballast input current shall have Total Harmonic Distortion (THD) of less than 10% at maximum light output when operated at nominal line voltage with primary lamp. Total Harmonic Current (THC) at minimum light output shall not exceed THC at maximum light output.
- 2.9 Ballast shall have a Class A sound rating.
- 2.10 Ballast shall have a minimum starting temperature of 10C (50F) for primary lamp.
- 2.11 Ballast shall provide Lamp EOL Protection Circuit for all T5, T5/HO, and CFL lamps.
- 2.12 Ballast shall control lamp light output from 100% - 5% relative light output for T8 and CFL lamps and 100% - 1% relative light output for T5/HO lamps.
- 2.13 Ballast shall ignite the lamps at any light output setting without first going to another output setting.
- 2.14 Ballast shall tolerate sustained open circuit and short circuit output conditions.

#### Section III - Regulatory Requirements

- 3.1 Ballast shall not contain any Polychlorinated Biphenyl (PCB).
- 3.2 Ballast shall be Underwriters Laboratories (UL) listed, Class P and Type 1 Outdoor; and Canadian Standards Association (CSA) certified where applicable.
- 3.3 Ballast shall comply with ANSI C62.41 Category A for Transient protection.
- 3.4 Ballast shall comply with ANSI C82.11 where applicable.
- 3.5 Ballast shall comply with the requirements of the Federal Communications Commission (FCC) rules and regulations, Title 47 CFR part 18, Non-Consumer (Class A) for EMI/RFI (conducted and radiated).
- 3.6 Ballast shall comply with NEMA 410 for in-rush current limits.

#### Section IV - Other

- 4.1 Ballast shall be manufactured in a factory certified to ISO 9001 Quality System Standards.
- 4.2 Ballast shall carry a \_\_\_\_ warranty from date of manufacture against defects in material or workmanship for operation at a maximum case temperature of \_\_\_\_ (Go to our web site for up to date warranty information: [www.philips.com/advancewarranty](http://www.philips.com/advancewarranty)).
- 4.3 Manufacturer shall have a twenty-year history of producing electronic ballasts for the North American market.
- 4.4 Ballast shall be controlled by a compatible Mark 10 Powerline two-wire dimmer.
- 4.5 Ballast shall be Philips Advance part # \_\_\_\_\_ or approved equal.

Revised 08/17/2006



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