

Metal Halide

For 20 – 175W Metal Halide HID Lamps

86667 – GEM10048TLC3D-5

Metal Halide

1 – 100W MH M90 or M140 480

General characteristics

| | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M90 or M140 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 12 Mfd |
| Voltage (MIN) | 280 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
|-----------------|--------------------------|--------------------------------|
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|---|--------------------------------|------------|
| M90, M140 100W Ceramic Metal Halide | | 480 |
| | System Wattage (W) | 120 |
| | Nominal Current | 0.30 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | |
| | Max Input Current | 0.56 A |
| | Starting Current | 0.33 A |
| | Open Circuit Voltage | 271V |
| | Drop Out Voltage | 384V |
| | Power Factor (≥)% | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 |
| | Fuse Rating | 2 |
| | UL Bench Top Rise | C |

Safety and performance  UL Listed

86718 – GEM150MLTLC3D-5

Metal Halide

1 – 150W MH M102 or M142 Quad (120/208/240/277V)

General characteristics

| | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M142, M102 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 16 Mfd |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
|-----------------|--------------------------|--------------------------------|
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | | |
|---|--------------------------------|------------|------------|------------|------------|
| M142, M102 150W Ceramic Metal Halide | | 120 | 208 | 240 | 277 |
| | System Wattage (W) | 186 | 186 | 186 | 186 |
| | Nominal Current | 1.60 A | 1.00 A | 0.80 A | 0.70 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.81 | 0.81 | 0.81 | 0.81 |
| | Max Input Current | 3.37 A | 1.95 A | 1.68 A | 1.39 A |
| | Starting Current | 1.86 A | 1.03 A | 0.89 A | 0.77 A |
| | Open Circuit Voltage | 257V | 257V | 257V | 257V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 |
| 150W Quartz Metal Halide | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 10 | 5 | 5 | 4 |
| | UL Bench Top Rise | A | B | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

Dimensions

Wiring diagram HID W-(F)-87068-86667 – see example on page 182

Case dimensions – Ref Drawing PC1 – see page 185

| | |
|------------|---------------------|
| Length (L) | 5.25 in (133.35 mm) |
| Width (W) | 1.25 in (31.75 mm) |

Mounting dimensions

| | |
|----------------------|---------------------|
| Mount Length (M) | 4.6 in (116.84 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6.35 mm) |
| A | 2.0 |
| B | 3.0 |
| Weight | 5.00 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (68.58 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

Dimensions

Wiring diagram HID W-(H)-86675-86718 – see example on page 182

Case dimensions – Ref Drawing PC1 – see page 185

| | |
|------------|---------------------|
| Length (L) | 5.25 in (133.35 mm) |
| Width (W) | 1.25 in (31.75 mm) |

Mounting dimensions

| | |
|----------------------|---------------------|
| Mount Length (M) | 4.6 in (116.84 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6.35 mm) |
| A | 2.3 |
| B | 4.0 |
| Weight | 7.00 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (68.58 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |