



Switch Start Metal Halide Protected

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An efficient, protected "O" rated lighting solution that is suitable for open-rated fixtures. Ideal for both indoor and outdoor applications.

Benefits

- Available in various bases and wattages.

Features

- Protective quartz shroud provides extra level of safety - shrouded arc tube for "O" open fixture rating.
- No shut-off required- Ideal for 24-hours a day, 7-days a week operations (relamp fixtures at or before the end of rated life)
- Extended eyelet mogul base will operate in both standard and exclusionary sockets.
- Satisfies the 2005 NEC for use in open luminaires†
- BT-56 base available in 1000 watts / ED-37 base available in 360 and 400 watts / ED 28 base available in 175 and 250 watts.
- * Relamp fixtures at or before end of rated average life. † The 2005 NEC states that luminaires that use a metal halide lamp shall be provided with either a containment barrier that encloses the lamp (historically referred to as an enclosed luminaire) or shall be provided with a means, typically a special lampholder, that will only accept ANSI Type-O metal halide lamp. (Exception—this requirement will not apply to open luminaires with thick-glass parabolic reflector PAR lamps.) For more information regarding use of Type-O, S, and E metal halide systems, please refer to the NEMA white paper on this subject that is freely available at www.nema.org

Application

- Ideal for manufacturing facilities, retail establishments and warehouses.

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Warnings and Safety

• R "WARNING: These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available." This lamp complies with FDA radiation performance standard 21 CFR subchapter J. (USA:21 CFR 1040.30 Canada: SOR/DORS/80-381)

Versions



E26/E27, Clear



EX39 BT-37, ED-37, Clear

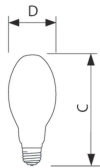
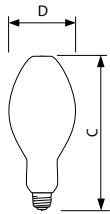


EX39, ED-28, Clear



EX39, BT-56, Clear

Dimensional drawing

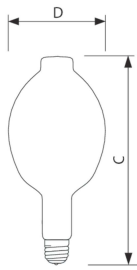
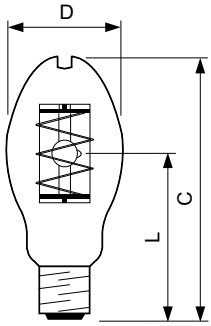


| Product | D | C (max) |
|-----------------|----------|---------|
| MP400/BU 6 PK | 4.625 in | 11.5 in |
| MP360/BU/EW 6PK | 4.625 in | 11.5 in |

| Product | D | C (max) |
|---------------|--------|----------|
| MP250/BU 12PK | 3.5 in | 8.313 in |

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Dimensional drawing



| Product | D (max) | L (min) | C (max) |
|---------------------------|---------|---------|---------|
| MH 100W/640 E26 CL | 56 mm | 83 mm | 138 mm |
| MH 100W/640 E26 CL 1SL/24 | 56 mm | 83 mm | 138 mm |

| Product | D | C (max) |
|---------------|------|-----------|
| MP1000/BU 6PK | 7 in | 15.375 in |

Mechanical and housing

Bulb Finish

Clear

Approval and application

| Order Code | Full Product Name | Energy Consumption kWh/1000 h | Energy Saving Product | Mercury (Hg) Content (Nom) | Picogram Per Lumen Hour |
|--------------|---------------------------|-------------------------------|-----------------------|----------------------------|-------------------------|
| 928485900191 | MH 100W/640 E26 CL 1SL/24 | 110 kWh | - | 10.2 mg | - |
| 928485900194 | MH 100W/640 E26 CL | 110 kWh | - | 10.2 mg | - |
| 928601157903 | MP400/BU 6 PK | - | Not Applicable | 57 mg | 76.9 pg/lm.h |

| Order Code | Full Product Name | Energy Consumption kWh/1000 h | Energy Saving Product | Mercury (Hg) Content (Nom) | Picogram Per Lumen Hour |
|--------------|-------------------|-------------------------------|-----------------------|----------------------------|-------------------------|
| 928601179201 | MP360/BU/E W 6PK | - | Energy Saving | 48 mg | 116 pg/lm.h |
| 928601161903 | MP250/BU 12PK | - | Not Applicable | 32 mg | - |
| 928601179601 | MP1000/BU 6PK | - | - | 150 mg | 173.7 pg/lm.h |

Controls and dimming

| Order Code | Full Product Name | Dimmable |
|--------------|---------------------------|----------|
| 928485900191 | MH 100W/640 E26 CL 1SL/24 | No |
| 928485900194 | MH 100W/640 E26 CL | No |
| 928601157903 | MP400/BU 6 PK | - |

| Order Code | Full Product Name | Dimmable |
|--------------|-------------------|----------|
| 928601179201 | MP360/BU/EW 6PK | - |
| 928601161903 | MP250/BU 12PK | - |
| 928601179601 | MP1000/BU 6PK | - |

Operating and electrical (1/2)

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| Order Code | Full Product Name | Lamp Current (EM) | | | | Power (Rated) | | Power (Rated) |
|--------------|---------------------------|--------------------|-------|---------------|---------------|---------------|-------|---------------|
| | | Lamp Current (Nom) | (Nom) | Voltage (Max) | Voltage (Min) | Voltage (Nom) | (Max) | (Min) |
| 928485900191 | MH 100W/640 E26 CL 1SL/24 | - | 1.1 A | 110 V | 90 V | 100 V | - W | - W |
| 928485900194 | MH 100W/640 E26 CL | - | 1.1 A | 110 V | 90 V | 100 V | - W | - W |
| 928601157903 | MP400/BU 6 PK | 3.25 A | - | 150 V | 120 V | 135 V | - | - |
| 928601179201 | MP360/BU/EW 6PK | 3.25 A | - | 130 V | 110 V | 120 V | - | - |
| 928601161903 | MP250/BU 12PK | 2.1 A | - | 148 V | 118 V | 133 V | - | - |
| 928601179601 | MP1000/BU 6PK | 4.1 A | - | - | - | 263 V | - | - |

Operating and electrical (2/2)

| Order Code | Full Product Name | Re-Ignition Time (Min) | | Order Code | Full Product Name | Re-Ignition Time (Min) | |
|--------------|---------------------------|------------------------|--------|--------------|-------------------|------------------------|--------|
| | | Power (Nom) | (Max) | | | Power (Nom) | (Max) |
| 928485900191 | MH 100W/640 E26 CL 1SL/24 | 106 W | - | 928601179201 | MP360/BU/EW 6PK | - | 15 min |
| 928485900194 | MH 100W/640 E26 CL | 106 W | - | 928601161903 | MP250/BU 12PK | - | 15 min |
| 928601157903 | MP400/BU 6 PK | - | 15 min | 928601179601 | MP1000/BU 6PK | - | 15 min |

General information

| Order Code | Full Product Name | Cap-Base | Life To 50% Failures (Nom) | Life To 5% Failures (Nom) | Main Application | Operating Position | System Description |
|--------------|---------------------------|----------|----------------------------|---------------------------|----------------------|--------------------|--------------------|
| 928485900191 | MH 100W/640 E26 CL 1SL/24 | E26 | 15000 h | 2000 h | - | H | - |
| 928485900194 | MH 100W/640 E26 CL | E26 | 15000 h | 2000 h | - | H | - |
| 928601157903 | MP400/BU 6 PK | EX39 | 20000 h | - | General Lighting (G) | H15 | - |
| 928601179201 | MP360/BU/EW 6PK | EX39 | 20000 h | - | General Lighting (G) | UNIVERSAL | - |
| 928601161903 | MP250/BU 12PK | EX39 | 10000 h | - | General Lighting (G) | H15 | - |
| 928601179601 | MP1000/BU 6PK | EX39 | 12000 h | - | General Lighting (G) | H15 | - |

Luminaire design requirements

| Order Code | Full Product Name | Bulb Temperature (Max) | Order Code | Full Product Name | Bulb Temperature (Max) |
|--------------|---------------------------|------------------------|--------------|-------------------|------------------------|
| 928485900191 | MH 100W/640 E26 CL 1SL/24 | 450 °C | 928601179201 | MP360/BU/EW 6PK | 400 °C |
| 928485900194 | MH 100W/640 E26 CL | 450 °C | 928601161903 | MP250/BU 12PK | 400 °C |
| 928601157903 | MP400/BU 6 PK | 400 °C | 928601179601 | MP1000/BU 6PK | 430 °C |

Light technical (1/2)

| Order Code | Full Product Name | Chromaticity | Chromaticity | Color Code | Color Designation | Correlated Color Temperature (Max) | Correlated Color Temperature (Min) | Correlated Color Temperature (Nom) |
|--------------|---------------------------|--------------------|--------------------|------------|-------------------|------------------------------------|------------------------------------|------------------------------------|
| | | Coordinate X (Nom) | Coordinate Y (Nom) | | | | | |
| 928485900191 | MH 100W/640 E26 CL 1SL/24 | 385 | 390 | 640 | Cool White (CW) | - | - | 4000 K |
| 928485900194 | MH 100W/640 E26 CL | 385 | 390 | 640 | Cool White (CW) | - | - | 4000 K |
| 928601157903 | MP400/BU 6 PK | 385 | 390 | 640 | Cool White (CW) | - | - | 4000 K |
| 928601179201 | MP360/BU/EW 6PK | 385 | 390 | 640 | Cool White (CW) | - | - | 4000 K |
| 928601161903 | MP250/BU 12PK | 395 | 395 | 640 | Cool White (CW) | - | - | 3800 K |
| 928601179601 | MP1000/BU 6PK | 405 | 390 | 635 | White (WH) | - K | - K | 3500 K |

Light technical (2/2)

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| Order Code | Full Product Name | Color Rendering Index (Nom) | Lumen Maintenance 10000 h (Nom) | Lumen Maintenance 2000 h (Nom) | Lumen Maintenance 5000 h (Nom) | Luminous Efficacy (rated) (Min) | Luminous Efficacy (rated) (Nom) | Design Mean Lumens | Luminous Flux (Rated) (Min) | Luminous Flux (Rated) (Nom) |
|--------------|---------------------------|-----------------------------|---------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|--------------------|-----------------------------|-----------------------------|
| 928485900191 | MH 100W/640 E26 CL 1SL/24 | 65 | 55 % | 70 % | 62 % | - | 85 lm/W | - | 7200 lm | 9000 lm |
| 928485900194 | MH 100W/640 E26 CL | 65 | 55 % | 70 % | 62 % | - | 85 lm/W | - | 7200 lm | 9000 lm |
| 928601157903 | MP400/BU 6 PK | 65 | - | - | - | - | 100 lm/W | 26600 lm | - | 40000 lm |
| 928601179201 | MP360/BU/EW 6PK | 65 | - | - | - | - | 100 lm/W | 23400 lm | - | 36000 lm |
| 928601161903 | MP250/BU 12PK | 62 | - | - | - | 77 lm/W | 86 lm/W | 16500 lm | 19350 lm | 21500 lm |
| 928601179601 | MP1000/BU 6PK | 65 | - | - | - | - | 107 lm/W | 69550 lm | - | 107000 lm |

Mechanical and housing

| Order Code | Full Product Name | Bulb Material | Bulb Shape | Order Code | Full Product Name | Bulb Material | Bulb Shape |
|--------------|---------------------------|---------------|------------|--------------|-------------------|---------------|------------|
| 928485900191 | MH 100W/640 E26 CL 1SL/24 | - | ED17 | 928601179201 | MP360/BU/EW 6PK | Hard Glass | BT37 |
| 928485900194 | MH 100W/640 E26 CL | - | ED17 | 928601161903 | MP250/BU 12PK | Hard Glass | ED28 |
| 928601157903 | MP400/BU 6 PK | Hard Glass | ED37 | 928601179601 | MP1000/BU 6PK | Hard Glass | BT56 |

