



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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Versions



E26/E27, Clear



E26, BD-17, Clear



EX39 BT-37, ED-37, Clear

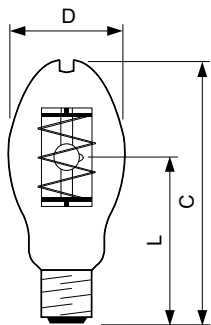
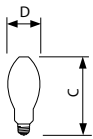


EX39, ED-28, Clear



EX39, BT-56, Clear

Dimensional drawing

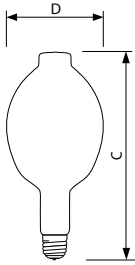


Product	D	C (max)
MH175/U/M 3PK	2.125 in	5.438 in

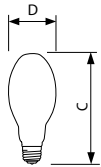
Product	D (max)	L (min)	C (max)
MH 100W/640 E26 CL	56 mm	83 mm	138 mm
MH 70W/640 E26 CL 1SL/24	56 mm	83 mm	138 mm
MH 150W/640 E26 CL 1SL/24	56 mm	83 mm	138 mm
MH 100W/640 E26 CL 1SL/24	56 mm	83 mm	138 mm

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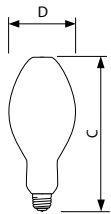
Dimensional drawing



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



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



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

Mechanical and Housing

Bulb Finish Clear (CL)

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/		Mercury (Hg) Content		
		1000 h	Energy Saving Product	(Max)	Mercury (Hg) Content (Nom)	Picogram Per Lumen Hour
137505	MH 70W/640 E26 CL 1SL/24	-	-	-	12 mg	-
137513	MH 100W/640 E26 CL 1SL/24	110 kWh	-	-	10.2 mg	-
460782	MH 100W/640 E26 CL 1CT/3	110 kWh	-	-	10.2 mg	-
137521	MH 150W/640 E26 CL 1SL/24	165 kWh	-	-	11 mg	-
460774	MH175/U/M 3PK	-	Not Applicable	24.0 mg	-	-
133322	MP400/BU 6 PK	-	Not Applicable	-	57 mg	76.9 pg/lm.h
130674	MP360/BU/EW 6PK	-	Energy Saving	-	48 mg	116 pg/lm.h
281246	MP250/BU 12PK	-	Not Applicable	-	32 mg	-

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Order Code	Full Product Name	Energy Consumption kWh/		Mercury (Hg) Content		
		1000 h	Energy Saving Product (Max)	Mercury (Hg) Content (Nom)	Picogram Per Lumen Hour	
281188	MP1000/BU 6PK	-	-	-	150 mg	173.7 pg/lm.h

Controls and Dimming

Order Code	Full Product Name	Dimmable	Order Code	Full Product Name	Dimmable
137505	MH 70W/640 E26 CL 1SL/24	No	133322	MP400/BU 6 PK	-
137513	MH 100W/640 E26 CL 1SL/24	No	130674	MP360/BU/EW 6PK	-
460782	MH 100W/640 E26 CL 1CT/3	No	281246	MP250/BU 12PK	-
137521	MH 150W/640 E26 CL 1SL/24	No	281188	MP1000/BU 6PK	-
460774	MH175/U/M 3PK	-			

Operating and Electrical (1/2)

Order Code	Full Product Name	Lamp Current (EM)		Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Rated) (Max)	Power (Rated) (Min)
		Lamp Current (Nom)	(Nom)					
137505	MH 70W/640 E26 CL 1SL/24	-	0.98 A	100 V	75 V	85 V	- W	- W
137513	MH 100W/640 E26 CL 1SL/24	-	1.1 A	110 V	90 V	100 V	- W	- W
460782	MH 100W/640 E26 CL 1CT/3	-	1.1 A	110 V	90 V	100 V	- W	- W
137521	MH 150W/640 E26 CL 1SL/24	-	1.8 A	105 V	85 V	95 V	- W	- W
460774	MH175/U/M 3PK	1.5 A	-	147 V	117 V	132 V	-	-
133322	MP400/BU 6 PK	3.25 A	-	150 V	120 V	135 V	-	-
130674	MP360/BU/EW 6PK	3.25 A	-	130 V	110 V	120 V	-	-
281246	MP250/BU 12PK	2.1 A	-	148 V	118 V	133 V	-	-
281188	MP1000/BU 6PK	4.1 A	-	-	-	263 V	-	-

Operating and Electrical (2/2)

Order Code	Full Product Name	Power (Rated) (Nom)	Re-Ignition Time		Order Code	Full Product Name	Power (Rated) (Nom)	Re-Ignition Time	
			(Min)	(Max)				(Min)	(Max)
137505	MH 70W/640 E26 CL 1SL/24	70.0 W	-	-	133322	MP400/BU 6 PK	-	-	15 min
137513	MH 100W/640 E26 CL 1SL/24	100.0 W	-	-	130674	MP360/BU/EW 6PK	-	-	15 min
460782	MH 100W/640 E26 CL 1CT/3	100.0 W	-	-	281246	MP250/BU 12PK	-	-	15 min
137521	MH 150W/640 E26 CL 1SL/24	150.0 W	-	-	281188	MP1000/BU 6PK	-	-	15 min
460774	MH175/U/M 3PK	-	-	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
137505	MH 70W/640 E26 CL 1SL/24	E26	12000 h	2000 h	-	Base Up	na
137513	MH 100W/640 E26 CL 1SL/24	E26	15000 h	2000 h	-	Base Up	na
460782	MH 100W/640 E26 CL 1CT/3	E26	15000 h	2000 h	-	Base Up	na
137521	MH 150W/640 E26 CL 1SL/24	E26	15000 h	2000 h	-	Base Up	na
460774	MH175/U/M 3PK	E26	10000 h	-	General Lighting (G)	Universal	-
133322	MP400/BU 6 PK	EX39	20000 h	-	General Lighting (G)	Base Up +/- 15 D	-
130674	MP360/BU/EW 6PK	EX39	20000 h	-	General Lighting (G)	Universal	-
281246	MP250/BU 12PK	EX39	10000 h	-	General Lighting (G)	Base Up +/- 15 D	-
281188	MP1000/BU 6PK	EX39	12000 h	-	General Lighting (G)	Base Up +/- 15 D	-

Luminaire Design Requirements

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Order Code	Full Product Name	Bulb Temperature (Max)
137505	MH 70W/640 E26 CL 1SL/24	450 °C
137513	MH 100W/640 E26 CL 1SL/24	450 °C
460782	MH 100W/640 E26 CL 1CT/3	450 °C
137521	MH 150W/640 E26 CL 1SL/24	450 °C
460774	MH175/U/M 3PK	450 °C

Order Code	Full Product Name	Bulb Temperature (Max)
133322	MP400/BU 6 PK	400 °C
130674	MP360/BU/EW 6PK	400 °C
281246	MP250/BU 12PK	400 °C
281188	MP1000/BU 6PK	430 °C

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity	Chromaticity	Color Code	Color Designation	Correlated Color		
		Coordinate X (Nom)	Coordinate Y (Nom)			Temperature (Max)	Correlated Color Temperature (Min)	Correlated Color Temperature (Nom)
137505	MH 70W/640 E26 CL 1SL/24	385	390	640	Cool White (CW)	-	-	4000 K
137513	MH 100W/640 E26 CL 1SL/24	385	390	640	Cool White (CW)	-	-	4000 K
460782	MH 100W/640 E26 CL 1CT/3	385	390	640	Cool White (CW)	-	-	4000 K
137521	MH 150W/640 E26 CL 1SL/24	385	390	640	Cool White (CW)	-	-	4000 K
460774	MH175/U/M 3PK	0.385	0.390	640	Cool White (CW)	-	-	4000 K
133322	MP400/BU 6 PK	385	390	640	Cool White (CW)	-	-	4000 K
130674	MP360/BU/EW 6PK	385	390	640	Cool White (CW)	-	-	4000 K
281246	MP250/BU 12PK	395	395	640	Cool White (CW)	-	-	3800 K
281188	MP1000/BU 6PK	405	390	635	White (WH)	- K	- K	3500 K

Light Technical (2/2)

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)
137505	MH 70W/640 E26 CL 1SL/24	60	-	73 %	-	-	80 lm/W	-	4200 lm	5600 lm
137513	MH 100W/640 E26 CL 1SL/24	65	55 %	70 %	62 %	-	90 lm/W	-	7200 lm	9000 lm
460782	MH 100W/640 E26 CL 1CT/3	65	55 %	70 %	62 %	-	90 lm/W	-	7200 lm	9000 lm
137521	MH 150W/640 E26 CL 1SL/24	65	58 %	73 %	64 %	-	90 lm/W	-	12150 lm	13500 lm
460774	MH175/U/M 3PK	65	-	-	-	70 lm/W	80 lm/W	9100 lm	-	14000 lm
133322	MP400/BU 6 PK	65	-	-	-	-	100 lm/W	26600 lm	-	40000 lm
130674	MP360/BU/EW 6PK	65	-	-	-	-	100 lm/W	23400 lm	-	36000 lm
281246	MP250/BU 12PK	62	-	-	-	77 lm/W	86 lm/W	16500 lm	19350 lm	21500 lm
281188	MP1000/BU 6PK	65	-	-	-	-	107 lm/W	69550 lm	-	107000 lm

Mechanical and Housing

Order Code	Full Product Name	Bulb Material	Bulb Shape
137505	MH 70W/640 E26 CL 1SL/24	-	ED17
137513	MH 100W/640 E26 CL 1SL/24	-	ED17
460782	MH 100W/640 E26 CL 1CT/3	-	ED17
137521	MH 150W/640 E26 CL 1SL/24	-	ED17
460774	MH175/U/M 3PK	Hard Glass	BD17

Order Code	Full Product Name	Bulb Material	Bulb Shape
133322	MP400/BU 6 PK	Hard Glass	ED37
130674	MP360/BU/EW 6PK	Hard Glass	BT37
281246	MP250/BU 12PK	Hard Glass	ED28
281188	MP1000/BU 6PK	Hard Glass	BT56

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