



Product description

MH-NaSc

Sodium Scandium Metal Halide Lamps consisting of a gasfilled glass bulb, which alternatively are clear or internal coated, and a quartz discharge tube (DT).

Benefits

- Energy saving solution with better color appearance and rendering property for conventional version.

Features

- Quartz discharge tube containing high-pressure mercury and a mixture of Sodium and Scandium halides, which contribute to multi-lines spectra; with Ar to aid ignition.
- Better colour rendering index around 60
- Luminous efficacy up to 90 lm/W
- Universal operation position permitted

Application

- Stadium and sports facilities lighting
- Industrial and commercial lighting—factory
- supermarket and exhibition hall etc.
- Public lighting—square, station, port, airport etc.
- Decorative flood lighting—monument, buildings e.g.
- hotel

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Versions



E39/E40, Clear

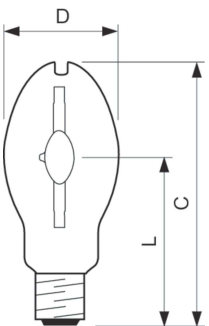
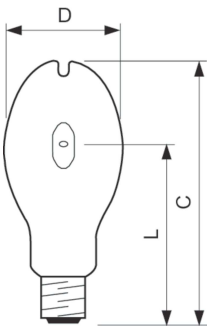


E40 & E39 Coated



E26/E27, Clear

Dimensional drawing



Product	D (max)	L (min)	C (max)
MH 175W/640 E40 CL U 1SL/12	91 mm	146 mm	226 mm
MH - 250W/640 E40 CL U 1SL/12	91 mm	149 mm	226 mm
MH 250W/637 E40 CO U 1SL/12	91 mm	149 mm	226 mm

Product	D (max)	L (min)	C (max)
MH 400W/640 E40 CL U 1SL/6	121 mm	184 mm	290 mm
MH Quartz 400W/637 E40 CO U 1SL/6	121 mm	184 mm	290 mm
MH 70W/640 E27 CL 1SL/24	56 mm	83 mm	141 mm
MH 70W/640 E27 CL 1SL/24	56 mm	83 mm	141 mm
MH 100W/640 E27 CL 1SL/24	56 mm	83 mm	141 mm
MH 150W/640 E27 CL 1SL/24	56 mm	83 mm	141 mm
MH 150W/640 E27 CL 1SL/24	56 mm	83 mm	141 mm
MH 100W/640 E27 CL 1SL/24	56 mm	83 mm	141 mm

Controls and Dimming

Dimmable No

Operating and Electrical

Power (Rated) (Min) - W

General Information

Operating Position H

System Description -

Light Technical

Color Designation Cool White (CW)

Approval and Application

Order Code	Full Product Name	Energy	
		Consumption kWh/ 1000 h	Mercury (Hg) Content (Nom)
928480200097	MH 175W/640 E40 CL U 1SL/12	192 kWh	28 mg
928480300097	MH - 250W/640 E40 CL U 1SL/12	275 kWh	33 mg
928480400097	MH 400W/640 E40 CL U 1SL/6	440 kWh	38 mg
928480310097	MH 250W/637 E40 CO U 1SL/12	275 kWh	33 mg
928480410097	MH Quartz 400W/637 E40 CO U 1SL/6	440 kWh	38 mg

Order Code	Full Product Name	Energy	
		Consumption kWh/ 1000 h	Mercury (Hg) Content (Nom)
928484400092	MH 70W/640 E27 CL 1SL/24	-	12 mg
928484400093	MH 70W/640 E27 CL 1SL/24	-	12 mg
928484500092	MH 100W/640 E27 CL 1SL/24	110 kWh	10.2 mg
928484500093	MH 100W/640 E27 CL 1SL/24	110 kWh	10.2 mg
928484600092	MH 150W/640 E27 CL 1SL/24	165 kWh	11 mg
928484600093	MH 150W/640 E27 CL 1SL/24	165 kWh	11 mg

Operating and Electrical

Order Code	Full Product Name	Lamp Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Rated) (Max)	Power (Rated) (Nom)
928480200097	MH 175W/640 E40 CL U 1SL/12	1.5 A	147 V	117 V	132 V	- W	175.0 W
928480300097	MH - 250W/640 E40 CL U 1SL/12	2.1 A	148 V	118 V	133 V	- W	250.0 W
928480400097	MH 400W/640 E40 CL U 1SL/6	3.25 A	150 V	120 V	135 V	440.0 W	400.0 W
928480310097	MH 250W/637 E40 CO U 1SL/12	2.1 A	148 V	118 V	133 V	- W	250 W
928480410097	MH Quartz 400W/637 E40 CO U 1SL/6	3.25 A	150 V	120 V	135 V	440.0 W	400.0 W
928484400092	MH 70W/640 E27 CL 1SL/24	0.98 A	100 V	75 V	85 V	- W	76 W
928484400093	MH 70W/640 E27 CL 1SL/24	0.98 A	100 V	75 V	85 V	- W	76 W
928484500092	MH 100W/640 E27 CL 1SL/24	1.1 A	110 V	90 V	100 V	- W	105 W
928484500093	MH 100W/640 E27 CL 1SL/24	1.1 A	110 V	90 V	100 V	- W	105 W
928484600092	MH 150W/640 E27 CL 1SL/24	1.8 A	105 V	85 V	95 V	- W	153 W
928484600093	MH 150W/640 E27 CL 1SL/24	1.8 A	105 V	85 V	95 V	- W	153 W

General Information

Order Code	Full Product Name	Cap-Base	Life To		
			20% Failures (Nom)	Life To 50% Failures (Nom)	Life To 5% Failures (Nom)
928480200097	MH 175W/640 E40 CL U 1SL/12	E40	-	10000 h	-
928480300097	MH - 250W/640 E40 CL U 1SL/12	E40	-	10000 h	-
928480400097	MH 400W/640 E40 CL U 1SL/6	E40	-	20000 h	-
928480310097	MH 250W/637 E40 CO U 1SL/12	E40	-	10000 h	-
928480410097	MH Quartz 400W/637 E40 CO U 1SL/6	E40	-	16000 h	-
928484400092	MH 70W/640 E27 CL 1SL/24	E27	5000 h	10000 h	2000 h

Order Code	Full Product Name	Cap-Base	Life To		
			20% Failures (Nom)	Life To 50% Failures (Nom)	Life To 5% Failures (Nom)
928484400093	MH 70W/640 E27 CL 1SL/24	E27	5000 h	10000 h	2000 h
928484500092	MH 100W/640 E27 CL 1SL/24	E27	5000 h	10000 h	2000 h
928484500093	MH 100W/640 E27 CL 1SL/24	E27	5000 h	10000 h	2000 h
928484600092	MH 150W/640 E27 CL 1SL/24	E27	5000 h	10000 h	2000 h
928484600093	MH 150W/640 E27 CL 1SL/24	E27	5000 h	10000 h	2000 h

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
928480200097	MH 175W/640 E40 CL U 1SL/12	400 °C
928480300097	MH - 250W/640 E40 CL U 1SL/12	400 °C
928480400097	MH 400W/640 E40 CL U 1SL/6	400 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928480310097	MH 250W/637 E40 CO U 1SL/12	400 °C
928480410097	MH Quartz 400W/637 E40 CO U 1SL/6	400 °C
928484400092	MH 70W/640 E27 CL 1SL/24	450 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928484400093	MH 70W/640 E27 CL 1SL/24	450 °C
928484500092	MH 100W/640 E27 CL 1SL/24	450 °C
928484500093	MH 100W/640 E27 CL 1SL/24	450 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928484600092	MH 150W/640 E27 CL 1SL/24	450 °C
928484600093	MH 150W/640 E27 CL 1SL/24	450 °C

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity	Chromaticity	Color Code	Correlated Color Temperature (Nom)	Color	Lumen	Lumen Maintenance 2000 h (Nom)
		Coordinate X (Nom)	Coordinate Y (Nom)			Rendering Index (Nom)	Maintenance 1000 h (Nom)	
928480200097	MH 175W/640 E40 CL U 1SL/12	375	390	640	4300 K	60	-	80 %
928480300097	MH - 250W/640 E40 CL U 1SL/12	390	390	640	4000 K	60	-	80 %
928480400097	MH 400W/640 E40 CL U 1SL/6	390	400	640	3900 K	60	-	85 %
928480310097	MH 250W/637 E40 CO U 1SL/12	405	395	637	3600 K	61	85 %	-
928480410097	MH Quartz 400W/637 E40 CO U 1SL/6	405	395	637	-	61	85 %	-
928484400092	MH 70W/640 E27 CL 1SL/24	390	380	640	4000 K	60	-	75 %
928484400093	MH 70W/640 E27 CL 1SL/24	390	380	640	4000 K	60	-	75 %
928484500092	MH 100W/640 E27 CL 1SL/24	375	385	640	4200 K	65	-	75 %
928484500093	MH 100W/640 E27 CL 1SL/24	375	385	640	4000 K	65	-	75 %
928484600092	MH 150W/640 E27 CL 1SL/24	385	390	640	4000 K	65	-	75 %
928484600093	MH 150W/640 E27 CL 1SL/24	385	390	640	4000 K	65	-	75 %

Light Technical (2/2)

Order Code	Full Product Name	Lumen	Luminous	Luminous	Luminous
		Maintenance 5000 h (Nom)	Efficacy (rated) (Nom)	Flux (Rated) (Min)	Flux (Rated) (Nom)
928480200097	MH 175W/640 E40 CL U 1SL/12	-	80 lm/W	11050 lm	14000 lm
928480300097	MH - 250W/640 E40 CL U 1SL/12	-	82 lm/W	17450 lm	20500 lm
928480400097	MH 400W/640 E40 CL U 1SL/6	-	97.5 lm/W	34000 lm	39000 lm
928480310097	MH 250W/637 E40 CO U 1SL/12	-	76 lm/W	17200 lm	19000 lm
928480410097	MH Quartz 400W/637	-	83.5 lm/W	25900 lm	33400 lm

Order Code	Full Product Name	Lumen	Luminous	Luminous	Luminous
		Maintenance 5000 h (Nom)	Efficacy (rated) (Nom)	Flux (Rated) (Min)	Flux (Rated) (Nom)
	E40 CO U 1SL/6				
928484400092	MH 70W/640 E27 CL 1SL/24	60 %	74 lm/W	4200 lm	5600 lm
928484400093	MH 70W/640 E27 CL 1SL/24	60 %	74 lm/W	4200 lm	5600 lm
928484500092	MH 100W/640 E27 CL 1SL/24	60 %	92 lm/W	8730 lm	9700 lm
928484500093	MH 100W/640 E27 CL 1SL/24	60 %	92 lm/W	8730 lm	9700 lm
928484600092	MH 150W/640 E27 CL 1SL/24	60 %	95 lm/W	13050 lm	14500 lm
928484600093	MH 150W/640 E27 CL 1SL/24	60 %	95 lm/W	13050 lm	14500 lm

Mechanical and Housing

Order Code	Full Product Name	Bulb Finish	Bulb Shape
928480200097	MH 175W/640 E40 CL U 1SL/12	Clear	ED90

Order Code	Full Product Name	Bulb Finish	Bulb Shape
928480300097	MH - 250W/640 E40 CL U 1SL/12	Clear	ED90

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Order Code	Full Product Name	Bulb Finish	Bulb Shape
928480400097	MH 400W/640 E40 CL U 1SL/6	Clear	ED120
928480310097	MH 250W/637 E40 CO U 1SL/12	Coated glass	ED90
928480410097	MH Quartz 400W/637 E40 CO U 1SL/6	Coated glass	ED120
928484400092	MH 70W/640 E27 CL 1SL/24	Clear	ED55
928484400093	MH 70W/640 E27 CL 1SL/24	Clear	ED55

Order Code	Full Product Name	Bulb Finish	Bulb Shape
928484500092	MH 100W/640 E27 CL 1SL/24	Clear	ED55
928484500093	MH 100W/640 E27 CL 1SL/24	Clear	ED55
928484600092	MH 150W/640 E27 CL 1SL/24	Clear	ED55
928484600093	MH 150W/640 E27 CL 1SL/24	Clear	ED55

