



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
- Low wattage lamps with extra quartz tube around DT to prevent the risk of outer bulb shattering when abnormal operated or to the end of life.
- Universal operation position permitted

Application

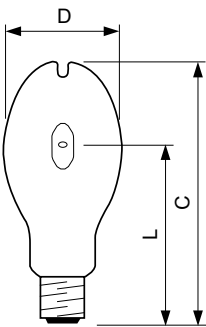
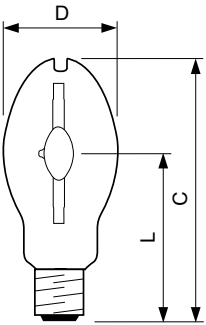
- Stadium and sports facilities lighting
- Industrial and commercial lighting—factory
- supermarket and exhibition hall etc.
- Public lighting—square, station, port, airport etc.
- Decorative flood lighting—monument, buildings e.g.
- hotel

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Versions



Dimensional drawing



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

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

Controls and Dimming	
Dimmable	No
Operating and Electrical	
Power (Rated) (Min)	- W
General Information	
Operating Position	H
System Description	na
Light Technical	
Colour Code	640
Colour Designation	Cool White (CW)
Mechanical and Housing	
Bulb Finish	Clear (CL)

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
19937915	MH 250W /640 U E40 CL SLV/12	275 kWh	A+	33 mg
19939310	MH 400W/640 E40 CL U 1SL/6	440 kWh	A+	48 mg
21155230	MH 70W/640 E27 CL 1SL/24	-	-	12 mg

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
21157600	MH 100W/640 E27 CL 1SL/24	110 kWh	A+	10.2 mg
21159030	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)
19937915	MH 250W /640 U E40 CL SLV/12	2.1 A	148 V	118 V	133 V	- W	250.0 W
19939310	MH 400W/640 E40 CL U 1SL/6	3.25 A	150 V	120 V	135 V	440.0 W	400.0 W
21155230	MH 70W/640 E27 CL 1SL/24	0.98 A	100 V	75 V	85 V	- W	70.0 W
21157600	MH 100W/640 E27 CL 1SL/24	1.1 A	110 V	90 V	100 V	- W	100.0 W
21159030	MH 150W/640 E27 CL 1SL/24	1.8 A	105 V	85 V	95 V	- W	150.0 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)
19937915	MH 250W /640 U E40 CL SLV/12	E40	-	10000 h	-
19939310	MH 400W/640 E40 CL U 1SL/6	E40	-	20000 h	-
21155230	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)
21157600	MH 100W/640 E27 CL 1SL/24	E27	5000 h	10000 h	2000 h
21159030	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)
19937915	MH 250W /640 U E40 CL SLV/12	400 °C
19939310	MH 400W/640 E40 CL U 1SL/6	400 °C
21155230	MH 70W/640 E27 CL 1SL/24	450 °C

Order Code	Full Product Name	Bulb Temperature (Max)
21157600	MH 100W/640 E27 CL 1SL/24	450 °C
21159030	MH 150W/640 E27 CL 1SL/24	450 °C

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity	Chromaticity	Correlated Colour Temperature (Nom)	Colour	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Nom)
		Coordinate X (Nom)	Coordinate Y (Nom)		Rendering Index (Nom)			
19937915	MH 250W /640 U E40 CL SLV/12	390	390	4000 K	60	80 %	-	82 lm/W
19939310	MH 400W/640 E40 CL U 1SL/6	390	400	3900 K	60	85 %	-	97.5 lm/W
21155230	MH 70W/640 E27 CL 1SL/24	390	380	4000 K	60	75 %	60 %	80 lm/W
21157600	MH 100W/640 E27 CL 1SL/24	375	385	4000 K	65	75 %	60 %	90 lm/W
21159030	MH 150W/640 E27 CL 1SL/24	385	390	4000 K	65	75 %	60 %	90 lm/W

Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
19937915	MH 250W /640 U E40 CL SLV/12	17450 lm	20500 lm
19939310	MH 400W/640 E40 CL U 1SL/6	34000 lm	39000 lm
21155230	MH 70W/640 E27 CL 1SL/24	4200 lm	5600 lm

Order Code	Full Product Name	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
21157600	MH 100W/640 E27 CL 1SL/24	7200 lm	9000 lm
21159030	MH 150W/640 E27 CL 1SL/24	12150 lm	13500 lm

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
19937915	MH 250W /640 U E40 CL SLV/12	ED90
19939310	MH 400W/640 E40 CL U 1SL/6	ED120
21155230	MH 70W/640 E27 CL 1SL/24	ED55

Order Code	Full Product Name	Bulb Shape
21157600	MH 100W/640 E27 CL 1SL/24	ED55
21159030	MH 150W/640 E27 CL 1SL/24	ED55

