



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

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

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
19937915	MH 250W /640 U E40 CL SLV/12	275 kWh	33 mg
19939310	MH 400W/640 E40 CL U 1SL/6	440 kWh	38 mg
21155230	MH 70W/640 E27 CL 1SL/24	-	12 mg

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
21157600	MH 100W/640 E27 CL 1SL/24	110 kWh	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	76 W
21157600	MH 100W/640 E27 CL 1SL/24	1.1 A	110 V	90 V	100 V	- W	105 W
21159030	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)
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	Luminous Efficacy (rated) (Nom)
		Coordinate X (Nom)	Coordinate Y (Nom)		Rendering Index (Nom)		Maintenance 5000 h (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 %	74 lm/W
21157600	MH 100W/640 E27 CL 1SL/24	375	385	4200 K	65	75 %	60 %	92 lm/W
21159030	MH 150W/640 E27 CL 1SL/24	385	390	4000 K	65	75 %	60 %	95 lm/W

Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)	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	21157600	MH 100W/640 E27 CL 1SL/24	8730 lm	9700 lm
19939310	MH 400W/640 E40 CL U 1SL/6	34000 lm	39000 lm	21159030	MH 150W/640 E27 CL 1SL/24	13050 lm	14500 lm
21155230	MH 70W/640 E27 CL 1SL/24	4200 lm	5600 lm				

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape	Order Code	Full Product Name	Bulb Shape
19937915	MH 250W /640 U E40 CL SLV/12	ED90	21157600	MH 100W/640 E27 CL 1SL/24	ED55
19939310	MH 400W/640 E40 CL U 1SL/6	ED120	21159030	MH 150W/640 E27 CL 1SL/24	ED55
21155230	MH 70W/640 E27 CL 1SL/24	ED55			

