



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	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+	38 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	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 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 %	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)
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	8730 lm	9700 lm
21159030	MH 150W/640 E27 CL 1SL/24	13050 lm	14500 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

