

HF-Matchbox Red

HF-M RED 109 SH TL/PL-S 230-240V

HF-Matchbox Red is an affordable, reliable, compact, lightweight and high-frequency ballast for use with system wattages below 25 W in combination with TL mini, TL-D, TL5 and TL5c, PL-T/C, and PL-L/S lamps. The HF-M Red range has a robust design, meets all relevant international safety and performance standards and has an energy efficiency index (CELMA EEI) of A2.

Product data

• General Information

Lamp Type	TL/PL-S
Number Of Lamps	1 piece/unit
Number Of Products On MCB (16A Type B) (Nom)	159
Automatic Restart	Yes

• Operating and Electrical

Input Voltage	230 to 240 V
Input Frequency	50-60_1 Hz
Power Factor 100%	0.64
Load (Nom)	
Ignition Time (Max)	0.45 s
Mains Voltage Performance (AC)	-8%+6%
Mains Voltage Safety (AC)	-10%+10%
Power Losses (Nom)	1.7 W

• Wiring

Connector Type	Insert
Input Terminals	
Color Input Terminals	Black
Color Output Terminals	Grey
Connector Type	Insert
Output Terminals	
Cable Length From Device To Lamp	1.50 m
Cable Length Hot Wiring	0.30 m
Wire Striplength	8.0-9.0 mm

Input Terminal Cross Section	0.50-1.50 mm ²
Output Terminal Cross Section	0.50-1.50 mm ²

• System characteristics

Rated Ballast-Lamp Power	9 W
System Power On PL-S	8.2 W
Rated Lamp Power On PL-S	9 W
Power Loss On PL-S	1.7 W
Lamp Power On PL-S	6.5 W
Lamp Power On TL	5.3 W
Rated Lamp Power On TL	9 W
System Power On TL	7 W

• Temperature

T-Ambient (Max)	40 °C
T-Ambient (Min)	-10 °C
T-Case Maximum (Max)	75 °C

• Mechanical and Housing

Housing	SH
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• Emergency Operation

Battery Voltage Lamp Ignition	194-254 V
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HF-Matchbox Red

• Approval and Application

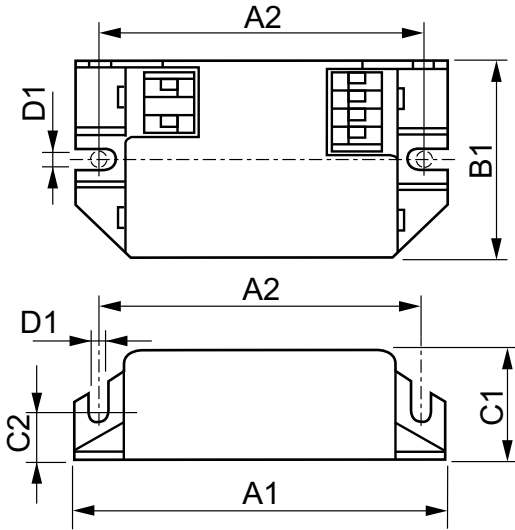
Approval Marks F-Marking
CE marking
ENEC certificate
CB Certificate

• Product Data

Full product code 871150093142930

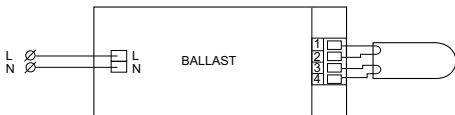
Order product name HF-M RED 109 SH TL/PL-S 230-240V
EAN/UPC - Product 8711500931429
Order code 913700422866
Numerator - Quantity Per Pack 1
Numerator - Packs per outer box 50
Material Nr. (12NC) 913700422866
Net Weight (Piece) 0.034 kg

Dimensional drawing



HF-M RED 109 SH TL/PL-S 230-240V

Product	D1	C1	C2	A1	A2	B1
HF-M RED 109 SH TL/PL-S 230-240V	4.4 mm	22.0 mm	10.0 mm	80.0 mm	70.0 mm	40.0 mm



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data subject to change