



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. The ballast is primarily designed for Indoor application. For outdoor application, the luminaire should be minimum Classland need to be sufficiently protected against water & dust. The installation should also be guard against any lightening surge or any other necessary electrical protection as deemed in such typical installation & application.

Product data

General Information			
Lamp Type	TL/PL-S		
Number of Lamps	1 piece/unit		
Number of Products on MCB (16A Type B)	159		
(Nom)			
Automatic Restart	Yes		
Operating and Electrical			
Input Voltage	230 to 240 V		
Input Frequency	50 to 60 Hz		
Power Factor 100% Load (Nom)	0.64		
Ignition Time (Max)	0.45 s		
Mains Voltage Performance (AC)	-8%-+6%		
Mains Voltage Safety (AC)	-10%-+10%		
Power Losses (Nom)	1.7 W		
Efficiency at full load [%]	80.76 %		

Wiring			
Willing			
Connector Type Input Terminals	Insert		
Color Input Terminals	Black		
Color Output Terminals	Grey		
Connector Type Output Terminals	Insert		
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 mm²		
Output Terminal Cross Section	0.50-1.50 mm²		
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		

Datasheet, 2022, January 14 data subject to change

HF-Matchbox Red

Rated Lamp Power on TL	9 W			
System Power on TL	7 W			
Power Loss on TL	1.7 W			
Temperature				
T-Ambient (Max)	40 ℃			
T-Ambient (Min)	-10 °C			
T-Case Maximum (Max)	75 ℃			
Mechanical and Housing				
Housing	SH			
Emergency Operation				
Battery Voltage Lamp Ignition	194-254 V			
Approval and Application				
IP Classification	IP 20 [Ingress Protection 20]			

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

. Δ2

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

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



© 2022 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.