



HF-Essential for TL5/TL-D

HF-E 414 TL5 220-240 50/60Hz

Essentially smart and reliableHF-Essential is the most cost-effective, slim and affordable ballast to reliably operate a fluorescent lamp. It is also the ideal entry-level product for EM system users who want to enjoy the benefits offered by electronic ballasts. The cost-saving and reliable HF-Essential has an energy efficiency class A2, and its robust design meets all relevant international safety and performance standards. HF- Essential is intended for use with indoor lighting fixtures such as recessed luminaires, which are largely used in office, industrial, hotel, restaurant and other applications.;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			
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Lamp Type	TL5		
Number of Lamps	4 piece/unit		
Automatic Restart	Yes		
Operating and Electrical			
Input Voltage	220 to 240 V		
Input Frequency	50 to 60 Hz		
Operating Frequency (Nom)	46 kHz		
Crestfactor (Nom)	1.8		
Power Factor 100% Load (Nom)	0.95		
Mains Voltage Performance (AC)	184253V		
Mains Voltage Safety (AC)	198264V		

Earth Leakage Current (Max)	0.5 mA
Inrush Current Width	0.26 ms
Ballast Factor (Nom)	1.02
Power Losses (Nom)	7.5 W
Inrush Current Peak (Max)	15.2 A
Wiring	
Connector Type Input Terminals	Insert
Cable Capacity Output Wires Mutual (Max)	150 pF
Connector Type Output Terminals	Insert
Cable Length Hot Wiring	0.75 m
Wire Striplength	8.0-9.0 mm

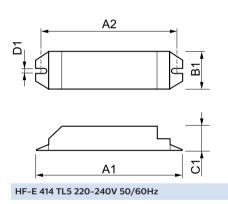
HF-Essential for TL5/TL-D

Dual Fixture Master/Slave	Not applicable [Master/Slave oper. not			
	applicable]			
Input Terminal Cross Section	0.50-1.50 mm²			
Output Terminal Cross Section	0.50-1.50 mm²			
Cable Capacity Cold Output Wires - Earth	150 pF			
(Max)				
Cable Capacity Hot Output Wires - Earth	150 pF			
(Max)				
System characteristics				
Rated Ballast-Lamp Power	14 W			
Temperature				
T-Ambient (Max)	50 °C			
T-Ambient (Min)	0 °C			
T-Storage (Max)	50 °C			
T-Storage (Min)	-20 °C			
T-Case Lifetime (Nom)	75 ℃			
T-Case Maximum (Max)	75 ℃			
Approval and Application				

IP Classification	IP 20 [Ingress Protection 20]			
EMI 9 kHz 30 MHz	EN55015			
Vibration Standard	IEC60068-2-6_2007-Fc			
Bumps Standard	IEC 60068-2-29:1993-Eb			
Approval Marks	CE marking C-Tick certificate CB Certificate			
	KEMA Keur certificate RoHS Compliant			
Hum And Noise Level	< 30 dB(A)			
Product Data				
Full product code	871829166889300			
Order product name	HF-E 414 TL5 220-240 50/60Hz			
EAN/UPC - Product	8718291668893			
Order code	913713039866			
Numerator - Quantity Per Pack	1			
Numerator - Packs per outer box	25			
Material Nr. (12NC)	913713039866			
Net Weight (Piece)	0.150 kg			

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Dimensional	drawing



Product	D1	C1	A1	A2	B1
HF-E 414 TL5 220-240	4.2 mm	25.4 mm	260.0 mm	250.0 mm	40.0 mm
50/60Hz					



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