

Lighting

PHILIPS

HF-Essential II for TL5/TL-D

HF-E II 236 TL-D 220-240V 50/60Hz

Essentially smart and reliableHF-Essential II is the most cost-effective solution for reliably operation of a fluorescent lamp. It is also the ideal entry-level product for electromagnetic system users who want to take advantage of the benefits provided by electronic ballasts. The cost-saving and reliable HF-Essential II is energy efficiency class A2, and its robust design meets all relevant international safety and performance standards.HF-Essential II is the ideal choice for a broad range of new construction and retrofit applications within the commercial sector, including general surface mounting and office lighting, parking garages, warehouses 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		
Lamp Type	TL-D II	
Number of Lamps	2 piece/unit	
Number of Products on MCB (16A Type B) (No	m) 16	
Automatic Restart	Yes	
Operating and Electrical		
Input Voltage	220 to 240 V	
Input Frequency	50 to 60 Hz	
Operating Frequency (Nom)	44.9 kHz	
Crestfactor (Nom)	1.8	

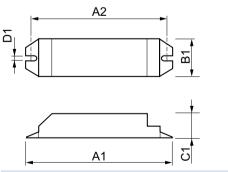
Power Factor 100% Load (Nom)	0.97			
Preheat Time	1.4 s			
Mains Voltage Performance (AC)	220-240V 184-276V			
Mains Voltage Safety (AC)				
Earth Leakage Current (Max)	0.5 mA 0.37 ms			
Inrush Current Width				
Ballast Factor (Nom)	0.95 8.4 W 20 A			
Power Losses (Nom)				
Inrush Current Peak (Max)				

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Wiring				
Connector Type Input Terminals	Insert			
Cable Capacity Output Wires Mutual (Max)	150 pF			
Connector Type Output Terminals	Insert 0.75 m 8.0-9.0 mm			
Cable Length Hot Wiring				
Wire Striplength				
Dual Fixture Master/Slave	Possible, lamp wires 0.75m max. length			
	[Master/Slave operation possible]			
Input Terminal Cross Section	0.50-1.50 mm²			
Output Terminal Cross Section	0.50-1.50 mm²			
Cable Capacity Cold Output Wires - Earth (Max)	150 pF			
Cable Capacity Hot Output Wires - Earth (Max)	150 pF			
System characteristics				
Rated Ballast-Lamp Power	36 W			
Lamp Power on TL-D	30.07/29.95 W			
Temperature				
T-Ambient (Max)	50 °C			
T-Ambient (Min)	-10 °C			
T-Storage (Max)	50 °C			
T-Storage (Min)	-20 °C			
T-Case Lifetime (Nom)	80 °C			
T-Case Maximum (Max)	80 °C			
Mechanical and Housing				
Housing	L 211x40x28.7			
Emergency Operation				
Nominal Light Output After 60 Seconds	100% of EBLF			

Normal Operating Voltage (DC)	220-240 V			
Battery Voltage Guaranteed Operation	176-275 V			
Battery Voltage Guaranteed Ignition	186-275 V			
Emergency Ballast Lumen Factor (EBLF) (Nom)	0.7 %			
Nominal Light Output After 5 Seconds	50% of EBLF			
Approval and Application				
Energy Efficiency Index	A2			
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 Eb			
Approval Marks	CE marking CB Certificate KEMA Keur			
	certificate RoHS Compliant			
Hum And Noise Level	< 30 dB(A)			
Product Data				
Full product code	871829177058900			
Order product name	HF-E II 236 TL-D 220-240V 50/60Hz			
EAN/UPC - Product	8718291770589			
Order code	913713041166			
Numerator - Quantity Per Pack	1			
Numerator - Packs per outer box	20			
Material Nr. (12NC)	913713041166			
Net Weight (Piece)	0.155 kg			
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Dimensional drawing



HF-E 236 TL-D II 220-240V 50/60Hz

Product	D1	C1	A1	A2	B1
HF-E II 236 TL-D 220-240V	4.2 mm	28.7 mm	211.0 mm	198.0 mm	39.6 mm
50/60Hz					

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