



HF-Essential II for TL5/TL-D

HF-E II 136 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	1/2 piece/unit				
Number of Products on MCB (16A Type B) (Nom) 20					
Automatic Restart	Yes				
Operating and Electrical					
Input Voltage	220 to 240 V				
Input Frequency	50 to 60 Hz				
Operating Frequency (Nom)	49.4 kHz				
Crestfactor (Nom)	1.8				

Power Factor 100% Load (Nom)	0.97	
Preheat Time	1.4 s	
Mains Voltage Performance (AC)	220-240V	
Mains Voltage Safety (AC)	184-276V	
Earth Leakage Current (Max)	0.5 mA	
Inrush Current Width	0.37 ms	
Ballast Factor (Nom)	0.95	
Power Losses (Nom)	3.74 W	
Inrush Current Peak (Max)	15 A	

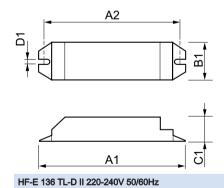
Datasheet, 2018, January 15 data subject to change

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Wiring				
Connector Type Input Terminals	Insert			
Cable Capacity Output Wires Mutual (Max)	150 pF			
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Connector Type Output Terminals	Insert			
Cable Length Hot Wiring	0.75 m			
Wire Striplength	8.0-9.0 mm			
Dual Fixture Master/Slave	Possible, lamp wires 0.75m max. length			
	[Master/Slave operation possible]			
Input Terminal Cross Section	0.50-1.50 mm ²			
Output Terminal Cross Section	0.50-1.50 mm ²			
Cable Capacity Cold Output Wires - Earth (Max)	150 pF			
Cable Capacity Hot Output Wires - Earth (Max)	150 pF			
System characteristics				
Rated Ballast-Lamp Power	36/18 W			
Lamp Power on TL-D	29.84 W			
Power Loss on TL-D	3.74 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 150x40x28			

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	871829177056500			
Order product name	HF-E II 136 TL-D 220-240V 50/60Hz			
EAN/UPC - Product	8718291770565			
Order code	913713041066			
Numerator - Quantity Per Pack	1			
Numerator - Packs per outer box	20			
Material Nr. (12NC)	913713041066			
Net Weight (Piece)	0.090 kg			

Dimensional drawing



Product	D1	C1	A1	A2	B1
HF-E II 136 TL-D 220-240V	4.2 mm	28.0 mm	150.0 mm	138.0 mm	39.6 mm
50/60Hz					

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