



HF-Essential for TL5/TL-D

HF-E 228 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.

Product data

General Information			
Lamp Type	TL5		
Number Of Lamps	2 piece/unit		
Automatic Restart	Yes		
Operating and Electrical			
Input Voltage	220 to 240 V		
Input Frequency	50 to 60 Hz		
Operating Frequency (Nom)	50 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	0.35 ms		
Ballast Factor (Nom)	1.03		

Power Losses (Nom)	6.7 W			
Inrush Current Peak (Max)	20 A			
Wiring				
Connector Type Input Terminals	Insert			
Cable Capacity Output Wires Mutual (Max)	120 pF			
Connector Type Output Terminals	Insert			
Cable Length Hot Wiring	0.75 m			
Wire Striplength	8.0-9.0 mm			
Dual Fixture Master/Slave	Not applicable [Master/Slave oper. not			
	applicable]			
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) 120 pF			
Cable Capacity Hot Output Wires - Earth (Max)	120 pF			

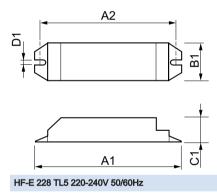
Datasheet, 2017, March 1 data subject to change

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System characteristics				
Rated Ballast-Lamp Power	28 W			
Rated Lamp Power On TL5	28 W			
System Power On TL5	35.1/36.2/37.7 W			
Lamp Power On TL5	28.2/29.5/30.7 W			
Power Loss On TL5	6.9/6.7/7 W			
Temperature				
T-Ambient (Max)	50 °C			
T-Ambient (Min)	0 °C			
T-Storage (Max)	80 °C			
T-Storage (Min)	-20 °C			
T-Case Lifetime (Nom)	75 °C			
T-Case Maximum (Max)	75 °C			
Mechanical and Housing				
Housing	L 275x29.6x25.5			
Approval and Application				
Energy Efficiency Index	A2			

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 ISO9001 RoHS
	Compliant
Hum And Noise Level	< 30 dB(A)
Product Data	
Full product code	871829166887900
Order product name	HF-E 228 TL5 220-240 50/60Hz
EAN/UPC - Product	8718291668879
Order code	913713039766
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	20
Material Nr. (12NC)	913713039766
Net Weight (Piece)	0.091 kg

Dimensional drawing



Product	D1	C1	A1	A2	B1
HF-E 228 TL5 220-240 50/60Hz	4.2 mm	25.5 mm	275.0 mm	263.0 mm	29.6 mm

