

HF-Performer III for TL-D lamps

HF-P 158 TL-D III 220-240V 50/60Hz IDC

HF-Performer III TLD is a sustainable, slim and high-frequency electronic ballast for TL-D fluorescent lamps. It is ideal for applications where high energy efficiency is required. The HF-Performer III range has a robust design, meets all relevant international safety and performance standards and is energy-efficient (CELMA EEI A2).

Benefits

• General Information

Type version	IDC
Lamp type	TL-D
Number of lamps	1 piece/unit
Number of products on MCB (16 A type B) (nom.)	28
Automatic restart	Yes

• Operating and Electrical

Input voltage	220 to 240 V
Input frequency	50-60 Hz
Operating frequency (nom.)	45 kHz
Ignition method	Programmed Start
Crest factor (max.)	1.7
Power factor 100% load (nom.)	0.97
Ignition time (max.)	1.5 s
Mains voltage performance (AC)	-8%-+6%
Mains voltage safety (AC)	-10%-+10%
Earth leakage current (nom.)	0.5 mA
Inrush current width	0.25 ms
Constant wattage deviation	-2%/+2%
Ballast factor (nom.)	0.97
Power losses (nom.)	4.8 W
Inrush current peak (max.)	18 A

• Wiring

Connector type input terminals	WAGO 251 universal connector [Suitable for both automatic wiring (ALF and ADS) and manual wiring]
Cable capacity output wires mutual (nom.)	200 pF
Connector type output terminals	WAGO 251 universal connector [Suitable for both automatic wiring (ALF and ADS) and manual wiring]
Cable length hot-wiring	0.75 m
Wire strip length	8.0-9.0 mm
Dual fixture master/slave	Not applicable [Master/Slave oper. not applicable]
Input terminal cross section	0.50-1.00 mm²
Output terminal cross section	0.50-1.00 mm²
Cable capacity output wires to earth (nom.)	200 pF

• System characteristics

Rated lamp power on TL-D	58 W
System power on TL-D	56.7 W
Lamp power on TL-D	51.9 W
Power loss on TL-D	4.8 W

• Temperature

T ambient (max.)	60 °C
T ambient (min.)	-25 °C
T storage (max.)	50 °C
T storage (min.)	-40 °C

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HF-Performer III for TL-D lamps

T case lifetime (nom.)	80 °C
T-Case maximum (max.)	80 °C
T-Ignition (max.)	60 °C
T-Ignition (min.)	-25 °C

- Mechanical and Housing

Housing	L 280x30x28

- Emergency Operation

Nominal light output after 60 seconds	100% of EBLF
Battery voltage lamp ignition	186-275 V
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

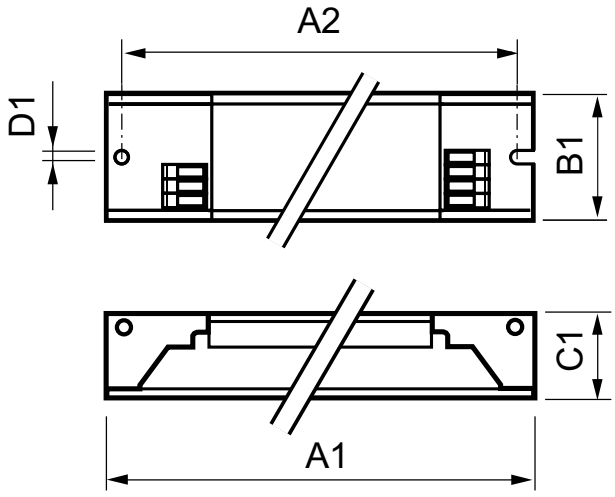
- Approval and Application

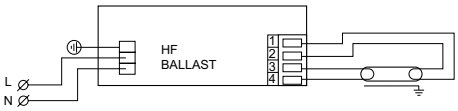
Energy efficiency index	A2 BAT
EMI 9 kHz... 30 MHz	EN55015
EMI 30 MHz... 1,000 MHz	Level = Class
Safety standard	IEC 61347-2-3
Performance standard	IEC 60929
Quality standard	ISO 9000:2000
Environmental standard	ISO 14001
Harmonic current emission standard	IEC 61000-3-2
EMC immunity standard	IEC 61547
Vibration standard	IEC 68-2-6 Fc
Bumps standard	IEC 68-2-29 Eb
Humidity standard	EN 61347-2-3 clause 11
Approval marks	CE marking ENEC certificate VDE-EMV certificate
Temperature marking	Yes
Humming and noise level	< 30 dB(A)

- Product Data

Full product code	872790091170100
Order product name	HF-P 158 TL-D III 220-240V 50/60Hz IDC
EAN/UPC – product	8711500999702
Order code	913713031866
Numerator – quantity per pack	1
Numerator – packs per outer box	12
Material no. (12NC)	913713031866
Net weight (piece)	0.205 kg

Dimensional drawing





HF-P 158 TL-D III 220-240V 50/60Hz IDC

Product	D1	C1	A1	A2	B1
HF-P 158 TL-D III 220-240V 50/60Hz IDC	4.2 mm	28.0 mm	280.0 mm	265.0 mm	30.0 mm

Photometric data

Ballast type	Lamp type	Lamp power		Ta = 40°C	Ta = 50°C	Ta = 60°C	Ta = 70°C
HF-P 158 TL-D III 220-240V 50/60Hz	TL-D General	58W	Tc	=57°C	=67°C	=75°C	X
			Lifetime	100,000 Hrs	100,000 Hrs	70,000 Hrs	X

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