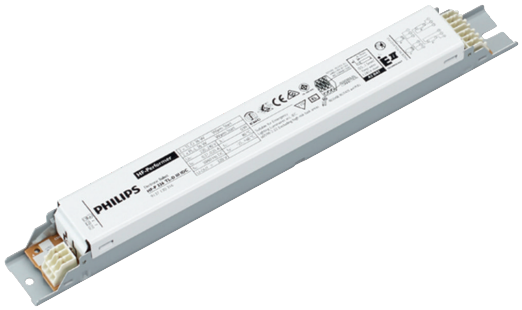


# HF-Performer III for TL-D lamps

## HF-P 236 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 | 2 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.) | 0.98 |
| Ignition time (max.) | 0.9 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.) | 0.96 |
| Power losses (nom.) | 5.5 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 | 36 W |
| System power on TL-D | 68 W |
| Lamp power on TL-D | 62.5 W |
| Power loss on TL-D | 5.5 W |

### • Temperature

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

PHILIPS

| | |
|---|---|
| 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 |

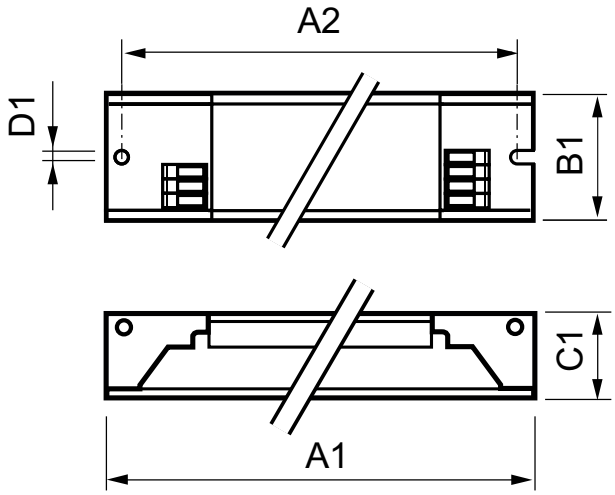
- Approval and Application

| | |
|---|---|
| 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<br>ENEC certificate<br>VDE-EMV certificate |
| Temperature marking | Yes |
| Humming and noise level | < 30 dB(A) |

- Product Data

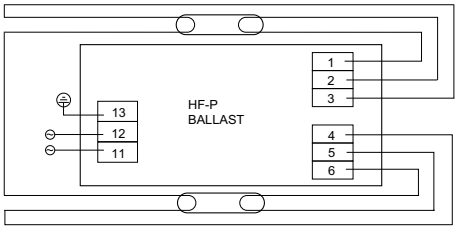
| | |
|---|---|
| Full product code | 872790091166400 |
| Order product name | HF-P 236 TL-D III 220-240V 50/60Hz IDC |
| EAN/UPC – product | 8711500999665 |
| Order code | 913713031666 |
| Numerator – quantity per pack | 1 |
| Numerator – packs per outer box | 12 |
| Material no. (12NC) | 913713031666 |
| Net weight (piece) | 0.203 kg |

## Dimensional drawing




HF-P 236 TL-D III 220-240V 50/60Hz IDC

| Product | D1 | C1 | A1 | A2 | B1 |
|---|---|---|---|---|---|
| HF-P 236 TL-D III 220-240V 50/60Hz IDC | 4.2 mm | 28.0 mm | 280.0 mm | 265.0 mm | 30.0 mm |




HF-P 2 TL-D/TL5 (keep wires 1;2 & 5;6 short)

# HF-Performer III for TL-D lamps

## Photometric data

| Ballast type | Lamp type | Lamp power | | Ta = 40°C | Ta = 50°C | Ta = 60°C | Ta = 70°C |
|---|---|---|---|---|---|---|---|
| HF-P 236 TL-D III 220-240V 50/60Hz | TL-D General | 36W | Tc | =56°C | =66°C | =74°C | X |
| | | | Lifetime | 100,000 Hrs | 100,000 Hrs | 75,000 Hrs | X |

© 2015 Philips Lighting Holding B.V.
All rights reserved.

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips N.V. (Royal Philips) or their respective owners.

**www.philips.com/lighting**

2015, December 24
data subject to change