



HF-Performer III for TL5 lamps

HF-P 1 14-35 TL5 HE III 220-240V

HF-Performer III TL5 ballasts offer maximum versatility and meet all of the necessary commercial grade specifications. They also offer the added benefits of lamp striation reduction technology, making these ballasts compatible with energy-saving TL5 ECO lamps. As such, these ballasts are part of an overall high-efficiency lighting system that may help you or your customers to achieve any international or local energy code you need to comply with. HF-Performer III TL5 ballasts are the ideal choice for a broad range of new construction and retrofit applications within the commercial sector, including general surface mounting or office lighting, parking garages, warehouses, waterproof and other applications.

Product data

| General Information | | Electrical | |
|--|------------------|---|--|
| Application code | III | Ignition time (max.) | 0.9 s |
| Type version | IDC | Mains voltage performance (AC) | -8% - +6% |
| Lamp type | TL5 HE | Mains voltage safety (AC) | -10% - +10% |
| Number of lamps | 1 piece/unit | Earth leakage current (nom.) | 0.5 mA |
| Number of products on MCB (16 A type B) (nom.) | 28 | Inrush current width | 0.25 ms |
| Automatic restart | Yes | Constant wattage deviation | -2% / +2% |
| | | Ballast factor (nom.) | 1.07 |
| | | Power losses (nom.) | 2.0 - 3.0 W |
| | | Inrush current peak (max.) | 24 A |
| Operating and Electrical | | Wiring | |
| Input Voltage | 220 to 240 V | Connector type input terminals | WAGO 251 universal connector [Suitable for both automatic wiring (ALF and ADS) and manual wiring] |
| Input frequency | 50 to 60 Hz | Cable capacity output wires mutual (nom.) | 200 pF |
| Operating frequency (nom.) | 45 kHz | | |
| Ignition method | Programmed Start | | |
| Crest factor (max.) | 1.7 | | |
| Power factor 100% load (nom.) | 0.99 | | |

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|---|--|
| 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 mm ² |
| Output terminal cross section | 0.50-1.00 mm ² |
| Cable capacity output wires to earth (nom.) | 200 pF |

System characteristics

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|----------------------------|-------------|
| Rated ballast-lamp power | 14-35 W |
| Rated lamp power on TL5 HE | 14/35 W |
| System power on TL5 HE | 16.0/39.5 W |
| Lamp power on TL5 HE | 14.0/36.5 W |
| Power loss on TL5 HE | 2.0/3.0 W |

Temperature

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|------------------------|--------|
| T-ambient (max.) | 60 °C |
| T-ambient (min.) | -25 °C |
| T storage (max.) | 80 °C |
| T storage (min.) | -40 °C |
| T-case lifetime (nom.) | 80 °C |
| T-Case maximum (max.) | 80 °C |
| T-Ignition (max.) | 50 °C |
| T-Ignition (min.) | -25 °C |

Mechanical and Housing

| | |
|---------|------------|
| Housing | L360x30x22 |
|---------|------------|

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 lamp operation | 186-275 |
| Battery voltage guaranteed operation | 176-275 V |

| | |
|--|-------------|
| Battery voltage guaranteed ignition | 186-275 V |
| Emergency ballast lumen factor (EBLF) (nom.) | 100 % |
| Nominal light output after 5 seconds | 50% of EBLF |

Approval and Application

| | |
|------------------------------------|---|
| Energy efficiency index | A2 BAT |
| IP classification | IP 20 [Ingress Protection 20] |
| EMI 9 kHz ... 30 MHz | EN55015 |
| EMI 30 MHz ... 1,000 MHz | - |
| 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 | IEC68-2-6 F c |
| 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 |
| Emergency standard | IEC 60598-2-22 |
| Humming and noise level | < 30 dB(A) |

Product Data

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|-------------------------------------|----------------------------------|
| Full product code | 872790090504500 |
| Order product name | HF-P 1 14-35 TL5 HE III 220-240V |
| EAN/UPC – product | 8711500999245 |
| Order code | 90504500 |
| SAP numerator – quantity per pack | 1 |
| SAP numerator – packs per outer box | 12 |
| Material no. (12 NC) | 913713031066 |
| SAP net weight (piece) | 0.220 kg |

Dimensional drawing

A2

| Product | D1 | C1 | A1 | A2 | B1 |
|----------------------------------|--------|---------|----------|----------|---------|
| HF-P 1 14-35 TL5 HE III 220-240V | 4.2 mm | 22.0 mm | 360.0 mm | 350.0 mm | 30.0 mm |

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