



HF-Performer III for TL5 lamps

HF-P 154/155 TL5 HO/PLL III 220-240V IDC

HF-Performer III TL5 is a sustainable, slim and high-frequency electronic ballast for TL5 and TL5 Eco 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 BAT).

Product data

| General Information | |
|--|------------------|
| Application code | III |
| Type version | IDC |
| Lamp type | TL5/PL-L |
| 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 to 60 Hz |
| Operating frequency (nom.) | 45 kHz |
| Ignition method | Programmed Start |
| Crest factor (max.) | 1.7 |
| Power factor 100% load (nom.) | 0.99 |
| 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.) | 1 |
| Power losses (nom.) | 4.5 W |
| Inrush current peak (max.) | 24 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 mm ² |
| Output terminal cross section | 0.50-1.00 mm ² |

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| Cable capacity output wires to earth (nom.) | 200 pF |
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System characteristics

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|-----------------------------|---------------------------|
| Rated ballast-lamp power | 54/55 W |
| Rated lamp power on PL-L | 54/55 W |
| System power on PL-L | 56W@55 W |
| Lamp power on PL-L | 51.5W@55 W |
| Power loss on PL-L | 4.5W@55 W |
| Rated lamp power on TL5 | 54/55 W |
| System power on TL5 | 57.5 W@54W; 55.5W@50 W; W |
| Lamp power on TL5 | 53 W@54 W |
| Power loss on TL5 | 4.5 W@54 W |
| Rated lamp power on TL5 ECO | 50 W |
| System power on TL5 ECO | 54.5 W |
| Lamp Power on TL5 ECO | 51W@50 W |
| Power loss on TL5 ECO | 4.5 W@50 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.) | 60 °C |
| T-Ignition (min.) | -25 °C |

Mechanical and Housing

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

Emergency Operation

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|---------------------------------------|--------------|
| Nominal light output after 60 seconds | 100% of EBLF |
| Battery voltage lamp ignition | 198-254 V |
| Normal operating voltage (DC) | 220-240 V |
| Battery voltage lamp operation | 176-254 |
| Battery voltage guaranteed operation | 176-275 V |
| Battery voltage guaranteed ignition | 186-275 V |

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| Emergency ballast lumen factor (EBLF) (nom.) | 100 % |
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| Nominal light output after 5 seconds | 50% of EBLF |
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Approval and Application

| | |
|------------------------------------|---|
| Energy efficiency index | A2 BAT |
| IP classification | IP 20 [Ingress Protection 20] |
| EMI 9 kHz ... 30 MHz | EN 55015 edition 7.1 |
| 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 | 872790086348200 |
| Order product name | HF-P 154/155 TL5 HO/PLL III 220-240V IDC |
| EAN/UPC – product | 8711500998217 |
| Order code | 913713028266 |
| Numerator – quantity per pack | 1 |
| Numerator – packs per outer box | 12 |
| SAP material | 913713028266 |
| SAP net weight (piece) | 0.252 kg |

Dimensional drawing

A2

| Product | D1 | C1 | A1 | A2 | B1 |
|--|--------|---------|----------|----------|---------|
| HF-P 154/155 TL5 HO/PLL III 220-240V IDC | 4.2 mm | 22.0 mm | 360.0 mm | 350.0 mm | 30.0 mm |

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