



HF-Performer III for TL5 lamps

HF-P 280 TL5/PL-L III 220-240V 50/60Hz

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 | |
|--|---|
| Remarks | UK importer address: Signify Commercial UK Limited, 3, Guildford Business Park, GU2 8XG |
| Application code | III |
| Type version | mk1 |
| Lamp type | TL5/PL-L |
| Number of lamps | 2 piece/unit |
| Number of products on MCB (16 A type B) (nom.) | 8 |
| 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 | Warm 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 | 0.38 ms |
| Constant wattage deviation | -2%/+2% |
| Ballast factor (nom.) | 1.04 |
| Power losses (nom.) | 9-10 W |
| Inrush current peak (max.) | 35 A |
| Efficiency at full load [%] | 95.5 % |

| 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 |

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|---|---|
| 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 | 80 W |
| Rated lamp power on PL-L | 80 W |
| System power on PL-L | 87.5 W |
| Lamp power on PL-L | 80 W |
| Power loss on PL-L | 7.5 W |
| Rated lamp power on TL5 | 80 W |
| System power on TL5 | 89.6 W |
| Lamp power on TL5 | 80 W |
| Power loss on TL5 | 9.6 W |

Temperature

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|------------------------|--------|
| T-ambient (max.) | 60 °C |
| T-ambient (min.) | -25 °C |
| T storage (max.) | 50 °C |
| T storage (min.) | -40 °C |
| T-case lifetime (nom.) | 85 °C |
| T-Case maximum (max.) | 85 °C |
| T-Ignition (max.) | 60 °C |
| T-Ignition (min.) | -25 °C |

Mechanical and housing

| | |
|---------|-------------|
| Housing | L 425x30x21 |
|---------|-------------|

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 | 176-275 |
| 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 | EN 55015 edition 7.1 |
| EMI 30 MHz ... 1,000 MHz | EN55022 level B |
| 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 | 872790095230800 |
| Order product name | HF-P 280 TL5/PL-L III 220-240V 50/60Hz |
| EAN/UPC – product | 8727900952308 |
| Order code | 95230800 |
| Local order code | HFP280T5PLLEIII |
| SAP numerator – quantity per pack | 1 |
| Local code description | REATOR ELETRONICO FLUOR HF-P 280 TL5III |
| Numerator – packs per outer box | 12 |
| SAP material | 913713034366 |
| Net Weight (Piece) | 0.360 kg |

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Dimensional drawing

A2

| Product | D1 | C1 | A1 | A2 | B1 |
|---|--------|---------|----------|----------|---------|
| HF-P 280 TL5/PL-L III 220-240V 50/60Hz | 4.2 mm | 21.0 mm | 425.0 mm | 415.0 mm | 30.0 mm |

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