



# HF-Performer III for TL5 lamps

## HF-P 180 TL5/PL-L 220-240V 50/60Hz IDC

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			
Application code	III	Ignition time (max.)	0.9 s
Type version	IDC	Mains voltage performance (AC)	-8% - +6%
Lamp type	TL5/PL-L	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.)	20	Inrush current width	0.30 ms
Automatic restart	Yes	Constant wattage deviation	-2% / +2%
		Ballast factor (nom.)	1
		Power factor (nom.)	0.99
		Power losses (nom.)	4-4.5 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 <sup>2</sup>
Output terminal cross section	0.50-1.00 mm <sup>2</sup>
Cable capacity output wires to earth (nom.)	200 pF

### System characteristics

Rated ballast-lamp power	80 W
Rated lamp power on PL-L	80 W
System power on PL-L	78 W
Lamp power on PL-L	74 W
Power loss on PL-L	4 W
Rated lamp power on TL5	80 W
System power on TL5	75 W
Lamp power on TL5	71 W
Power loss on TL5	4 W
System power on TL5 ECO	74.5 W
Lamp Power on TL5 ECO	70 W
Power loss on TL5 ECO	4.5 W

### Temperature

T-ambient (max.)	60 °C
T-ambient (min.)	-25 °C
T storage (max.)	50 °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	L 360x30x21
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### Emergency Operation

Nominal light output after 60 seconds	100% of EBLF
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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

Full product code	872790095228500
Order product name	HF-P 180 TL5 III 220-240V 50/60Hz
EAN/UPC – product	8727900952285
Order code	95228500
SAP numerator – quantity per pack	1
SAP numerator – packs per outer box	12
SAP material	913713034266
Net Weight (Piece)	0.250 kg

## HF-Performer III for TL5 lamps

### Dimensional drawing

A2

Product	D1	C1	A1	A2	B1
HF-P 180 TL5 III 220-240V 50/60Hz	4.2 mm	21.0 mm	360.0 mm	350.0 mm	30.0 mm

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