

HF-Performer III for TL5 lamps

HF-P 180 TL5/PL-L 220-240V 50/60Hz 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.)	20
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	0.30 ms
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

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]

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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 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

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.)	0.7 %
Nominal light output after 5 seconds	50% of EBLF

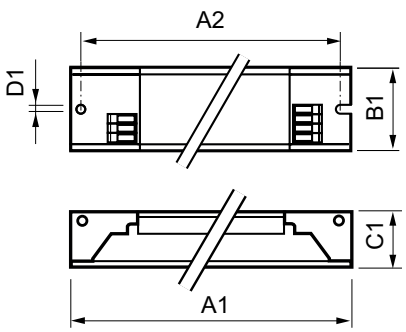
Approval and Application

Energy efficiency index	A2 BAT
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
Local Code	HFP180TLPLLEIIL
Numerator – quantity per pack	1
Numerator – packs per outer box	12
Material no. (12NC)	913713034266
Net weight (piece)	0.250 kg

Dimensional drawing



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

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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Photometric data

Ballast type	Lamp type	Lamp power		Ta = 40°C	Ta = 50°C	Ta = 60°C	Ta = 70°C
HF-P 180 TL5/PL-L III 220-240V 50/60Hz	TL5 HO	80W	Tc	=60°C	=70°C	=78°C	X
	TL5 HO ECO	73W	Lifetime	100,000 Hrs	95,000 Hrs	57,000 Hrs	X
	PL-L	80W					

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