

HF-Performer III for TL5 lamps

HF-P 249 TL5 HO III 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).

Benefits

• General Information

Type version	IDC
Lamp type	TL5 HO
Number of lamps	2 piece/unit
Number of products on MCB (16 A type B) (nom.)	12
Automatic restart	Yes

• Operating and Electrical

Input voltage	220 to 240 V
Input frequency	50-60 Hz
Operating frequency (nom.)	46 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	0.35 ms
Constant wattage deviation	-2%/+2%
Ballast factor (nom.)	0.925
Power losses (nom.)	6.5 W
Inrush current peak (max.)	31 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 mm²
Output terminal cross section	0.50-1.00 mm²
Cable capacity output wires to earth (nom.)	200 pF

• System characteristics

Rated lamp power on TL5	49 W
System power on TL5	109 W
Lamp power on TL5	102.5 W
Power loss on TL5	6.5 W
Rated lamp power on TL5 ECO	45 W
System power on TL5 ECO	95.5 W
Lamp power on TL5 ECO	90 W
Power loss on TL5 ECO	5.5 W

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HF-Performer III for TL5 lamps

- Temperature

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

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 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

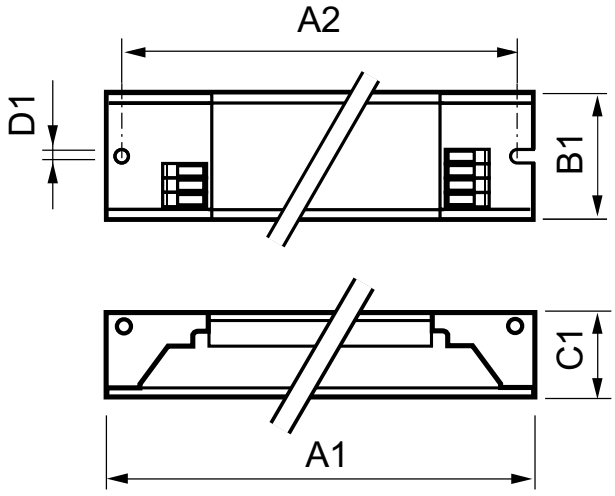
- Approval and Application

Energy efficiency index	A2 BAT
EMI 9 kHz... 30 MHz	EN55015
EMI 30 MHz... 1,000 MHz	Not specified
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	IEC 68-2-6 Fc
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
Humming and noise level	< 30 dB(A)

- Product Data

Full product code	872790086347500
Order product name	HF-P 249 TL5 HO III 220-240V 50/60Hz IDC
EAN/UPC – product	8711500881984
Order code	913713028166
Numerator – quantity per pack	1
Numerator – packs per outer box	12
Material no. (12NC)	913713028166
Net weight (piece)	0.267 kg

Dimensional drawing

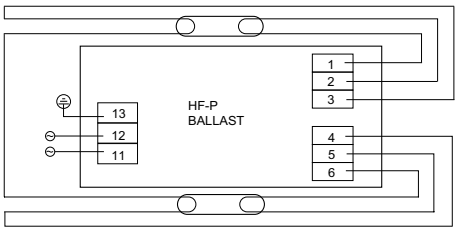


HF-P 249 TL5 HO III 220-240V 50/60Hz IDC

Product	D1	C1	A1	A2	B1
HF-P 249 TL5 HO III 220-240V 50/60Hz IDC	4.2 mm	22.0 mm	360.0 mm	350.0 mm	30.0 mm

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Dimensional drawing



HF-P 2 TL-D/TL5 (keep wires 1;2 & 5;6 short)

Photometric data

Ballast type	Lamp type	Lamp power		Ta = 40°C	Ta = 50°C	Ta = 60°C	Ta = 70°C
HF-P 249 TL5 HO III 220-240V 50/60Hz	TL5 HO	49W	Tc	=55°C	=65°C	=73°C	X
			Lifetime	100,000 Hrs	100,000 Hrs	80,000 Hrs	X

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