



HF-Performer III for TL-D lamps

HF-P 3/418 TL-D III 220-240V 50/60Hz IDC

HF-Performer III TLD is a sustainable, slim and high-frequency electronic ballast for TL-D 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).

Product data

General information	
Application code	III
Type version	IDC
Lamp type	TL-D
Number of lamps	3/4 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 factor (nom.)	0.99
Power losses (nom.)	4-5 W
Inrush current peak (max.)	24 A
Efficiency at full load [%]	91.3 %
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 mm ²
Output terminal cross section	0.50-1.00 mm ²
Cable capacity output wires to earth (nom.)	200 pF

System characteristics

Rated ballast-lamp power	18 W
Rated lamp power on TL-D	18 W
System power on TL-D	56.5W@3x18W; 72.5W@4x18 W
Lamp power on TL-D	52.5W@3x18W; 67.5W@4x18 W
Power loss on TL-D	4W@3x18W; 5W@4x18 W

Temperature

T-ambient (max.)	60 °C
T-ambient (min.)	-25 °C
T-ambient (min.)	-25 °C
T storage (max.)	50 °C
T storage (min.)	-40 °C
T-case lifetime (nom.)	80 °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 280x40x28
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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	186-275
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
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Approval and application

Energy efficiency index	A2 BAT
IP classification	IP 20 [Ingress Protection 20]
EMI 9 kHz ... 30 MHz	EN55015
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	872790091162600
Order product name	HF-P 3/418 TL-D III 220-240V 50/60Hz IDC
EAN/UPC – product	8711500999627
Order code	913713031466
SAP numerator – quantity per pack	1
Numerator – packs per outer box	10
SAP material	913713031466
Net Weight (Piece)	0.250 kg

Dimensional drawing

A2

Product	D1	C1	A1	A2	B1
HF-P 3/418 TL-D III 220-240V 50/60Hz IDC	4.2 mm	28.0 mm	280.0 mm	265.0 mm	40.0 mm

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