



HF-Performer III for TL5 lamps

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

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			
Type version	mk1			
Lamp type	TL5/PL-L			
Number of lamps	2 piece/unit			
Number of products on MCB (16 A type B)	8			
(nom.)				
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			

Datasheet, 2023, April 6 data subject to change

HF-Performer III for TL5 lamps

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 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				
T-ambient (max.)	60 ℃			
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			
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Eattery voltage guaranteed ignition Emergency ballast lumen factor (EBLF) (nom.) Nominal light output after 5 seconds 50% of EBLF Approval and application Energy efficiency index A2 BAT IP classification EM 9 kHz 30 MHz EM 30 MHz 1,000 MHz EM 30 MHz 1,000 MHz EM 55015 edition 7.1 EM 30 MHz 1,000 MHz EM 55022 level B Safety standard IEC 61347-2-3 Performance standard IEC 60929 Quality standard IEC 60929 Quality standard IEC 610000-3-2 EMC immunity standard IEC 668-2-6 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 A9 72790095230800 Order product data Full product code Product data Full product code 95230800 SAP numerator – quantity per pack IC SAP material 913713034366 Net Weight (Piece) 0.360 kg	Battery voltage guaranteed operation	176-275 V			
Emergency ballast lumen factor (EBLF) (nom.) 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 EN 55022 level B Safety standard IEC 61347-2-3 Performance standard ISO 9000-2000 Environmental standard ISO 14001 Harmonic current emission standard IEC 61000-3-2 EMC immunity standard IEC 68-2-6 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 87279009523080 Order product name HF-P 280 TL5/PL-L III 220-240V 50/60Hz EAN/UPC - product Packs per outer box 12 SAP material 913713034366					
(nom.) 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 IEC 61000-3-2 EMC immunity standard IEC 61547 Vibration standard IEC 68-2-9 Eb Humidity 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 A790095230800 Order product name HF-P 280 TL5/PL-L III 220-240V 50/60Hz EAN/UPC - product 8727900952308 Order code 95230800 SAP numerator - quantity per pack 1 Local code description REATOR ELETRONICO FLUOR HF-P 280 TL5/III Numerator - packs per outer box 12 SAP material					
Approval and application Energy efficiency index 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 ISO 9000:2000 Environmental standard ISO 14001 Harmonic current emission standard IEC 61000-3-2 EMC immunity standard IEC 68-2-6 F c Bumps standard IEC 68-2-9 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 APPRODUCT data Full product code Order product name HF-P 280 TL5/PL-L III 220-240V 50/60Hz EAN/UPC - product 872790095230800 SAP numerator - quantity per pack Local code description REATOR ELETRONICO FLUOR HF-P 280 TL5/III Numerator - packs per outer box 12 SAP material 913713034366		100 %			
Approval and application Energy efficiency index IP 20 [Ingress Protection 20] EMI 9 kHz 30 MHz EN 55015 edition 7.1 EMI 30 MHz 1,000 MHz EN 55022 level B Safety standard IEC 61347-2-3 Performance standard ISO 9000:2000 Environmental standard ISO 14001 Harmonic current emission standard IEC 61000-3-2 EMC immunity standard IEC 68-2-6 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 70 det code 872790095230800 SAP numerator – quantity per pack Local code description REATOR ELETRONICO FLUOR HF-P 280 TL5/III Numerator – packs per outer box 12 SAP material	<u> </u>	50% of EBLE			
Energy efficiency index 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 14001 Harmonic current emission standard IEC 61000-3-2 EMC immunity standard IEC 61547 Vibration standard IEC 68-2-6 F c Bumps standard IEC 68-2-9 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 Product data Full product code Order product name HF-P 280 TL5/PL-L III 220-240V 50/60Hz EAN/UPC - product Order code SAP numerator - quantity per pack Local code description REATOR ELETRONICO FLUOR HF-P 280 TL5III Numerator - packs per outer box 12 SAP material 913713034366	- Normal light output after 5 seconds	50% OI EBLF			
Energy efficiency index 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 14001 Harmonic current emission standard IEC 61000-3-2 EMC immunity standard IEC 61547 Vibration standard IEC 68-2-6 F c Bumps standard IEC 68-2-9 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 Product data Full product code Order product name HF-P 280 TL5/PL-L III 220-240V 50/60Hz EAN/UPC - product Order code SAP numerator - quantity per pack Local code description REATOR ELETRONICO FLUOR HF-P 280 TL5III Numerator - packs per outer box 12 SAP material 913713034366	Approval and application				
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EMI 9 kHz 30 MHz EMI 30 MHz 1,000 MHz EN55015 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 66547 Vibration standard IEC 68-2-26 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 A30 dB(A) Product data Full product code B72790095230800 Order product name HF-P 280 TL5/PL-L III 220-240V 50/60Hz EAN/UPC - product B727900952308 Order code 95230800 SAP numerator - quantity per pack 1 Local code description REATOR ELETRONICO FLUOR HF-P 280 TL5/III Numerator - packs per outer box 12 SAP material		IP 20 [Ingress Protection 20]			
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Environmental standard ISO 14001 Harmonic current emission standard IEC 61000-3-2 EMC immunity standard IEC 6547 Vibration standard IEC 68-2-6 F c Bumps standard IEC 68-2-9 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 872790095230800 Order product name HF-P 280 TL5/PL-L III 220-240V 50/60Hz EAN/UPC - product 8727900952308 Order code 95230800 SAP numerator - quantity per pack 1 Local code description REATOR ELETRONICO FLUOR HF-P 280 TL5/III Numerator - packs per outer box 12 SAP material 913713034366	Quality standard	ISO 9000:2000			
EMC immunity standard Vibration standard IEC 68-2-6 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 A70 dB(A) Product data Full product code Order product name HF-P 280 TL5/PL-L III 220-240V 50/60Hz EAN/UPC - product 87279009523080 Order code 95230800 SAP numerator - quantity per pack Local code description REATOR ELETRONICO FLUOR HF-P 280 TL5III Numerator - packs per outer box 12 SAP material 913713034366					
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 872790095230800 Order product name HF-P 280 TL5/PL-L III 220-240V 50/60Hz EAN/UPC - product 8727900952308 Order code 95230800 SAP numerator - quantity per pack 1 Local code description REATOR ELETRONICO FLUOR HF-P 280 TL5/III Numerator - packs per outer box 12 SAP material 913713034366	Harmonic current emission standard	IEC 61000-3-2			
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 872790095230800 Order product name HF-P 280 TL5/PL-L III 220-240V 50/60Hz EAN/UPC - product 8727900952308 Order code 95230800 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	EMC immunity standard	IEC 61547			
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 872790095230800 Order product name HF-P 280 TL5/PL-L III 220-240V 50/60Hz EAN/UPC - product 8727900952308 Order code 95230800 SAP numerator - quantity per pack 1 Local code description REATOR ELETRONICO FLUOR HF-P 280 TL5/III Numerator - packs per outer box 12 SAP material 913713034366	Vibration standard	IEC68-2-6 F c			
Approval marks CE marking ENEC certificate VDE-EMV certificate Temperature marking Yes Emergency standard IEC 60598-2-22 Humming and noise level 4 30 dB(A) Product data 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 SAP numerator - quantity per pack Local code description REATOR ELETRONICO FLUOR HF-P 280 TL5/III Numerator - packs per outer box 12 SAP material 913713034366	Bumps standard	IEC 68-2-29 Eb			
Certificate Temperature marking Yes Emergency standard IEC 60598-2-22 Humming and noise level < 30 dB(A) Product data 872790095230800 Order product name HF-P 280 TL5/PL-L III 220-240V 50/60Hz 8727900952308 Order code 95230800 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	Humidity standard	EN 61347-2-3 clause 11			
Temperature marking Yes Emergency standard IEC 60598-2-22 Humming and noise level < 30 dB(A) Product data Full product code Full product name HF-P 280 TL5/PL-L III 220-240V 50/60Hz 8727900952308 Corder code 95230800 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	Approval marks	CE marking ENEC certificate VDE-EMV			
Emergency standard IEC 60598-2-22 Humming and noise level < 30 dB(A) Product data 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 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		certificate			
Humming and noise level < 30 dB(A)	Temperature marking	Yes			
Product data Full product code 872790095230800 Order product name HF-P 280 TL5/PL-L III 220-240V 50/60Hz 8727900952308 Order code 95230800 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	Emergency standard	IEC 60598-2-22			
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SAP numerator – quantity per pack Local code description REATOR ELETRONICO FLUOR HF-P 280 TL5III Numerator – packs per outer box 12 SAP material 913713034366	EAN/UPC – product	8727900952308			
Local code description REATOR ELETRONICO FLUOR HF-P 280 TL5III Numerator – packs per outer box 12 SAP material 913713034366	Order code	95230800			
Numerator – packs per outer box 12 SAP material 913713034366	SAP numerator – quantity per pack	1			
Numerator – packs per outer box12SAP material913713034366	Local code description	REATOR ELETRONICO FLUOR HF-P 280			
SAP material 913713034366		TL5III			
	Numerator – packs per outer box	12			
Net Weight (Piece) 0.360 kg	SAP material	913713034366			
	Net Weight (Piece)	0.360 kg			

HF-Performer III for TL5 lamps

Dimensional drawing

A2

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

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

