

## PRODUCT DATASHEET

### PTi 20/220...240 I

POWERTRONIC INTELLIGENT PTi I | ECG for HID lamps, with cable clamp



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#### AREAS OF APPLICATION

- Shop lighting
- Health and fitness areas (in luminaires with protection class IP66 or higher)
- Effect and accent lighting

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#### PRODUCT FAMILY BENEFITS

- Extended terminal section enables mains looping
- Screw-down cable clamps for reliable strain relief
- Long reliable life at maximum permitted temperatures
- Automatic safety shutdown of lamps in the event of a defect or at end of life (EoL)

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#### PRODUCT FAMILY FEATURES

- Energy Efficiency Index EEI: A2
- Supply voltage: 220...240 V
- Line frequency: 50...60 Hz
- RI suppression: to EN 55015/CISPR 15
- Safety: to EN 61347-2-12
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547

**TECHNICAL DATA**

Electrical data

Lamp wattage	20 W
Line current	0.11 A <sup>1)</sup>
Ignition voltage	3.0 kVp
Operating frequency	0.100...0.120 kHz
System wattage [AGGR]	23.00 W
ECG efficiency	87 %
Input voltage AC	198...264 V
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Power factor λ	0.95 <sup>2)</sup>
Inrush current	12 A <sup>3)</sup>
Max. ECG no. on circuit breaker 10 A (B)	22 <sup>4)</sup>
Max. ECG no. on circuit breaker 16 A (B)	33 <sup>4)</sup>
Max. no. of ECGs on 16A MCB with EBN-OS	82 <sup>4)</sup>
Maximum current for mains looping	16 A
Protective conductor current	0.2 mA
U-OUT (working voltage)	250 V
Max. working voltage between LH and LL	250 V
Max. working voltage betw. LL/LH & earth	250 V
Max. capacitance of wire ECG/lamp	120 pF

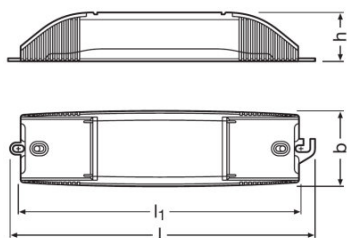
<sup>1)</sup> At 230 V<sub>AC</sub>

<sup>2)</sup> Minimum

<sup>3)</sup>  $t_{width} = 210 \mu s$  (measured at 50 % I<sub>peak</sub>)

<sup>4)</sup> Type B

Dimensions & weight



Length	204.0 mm
Width	50.0 mm

<b>Height</b>	32.0 mm
<b>Mounting hole spacing, length</b>	186.5 mm
<b>Cable cross-section, input side</b>	0.75...2.5 mm <sup>2</sup>
<b>Cable cross-section, output side</b>	0.75...2.5 mm <sup>2</sup>
<b>Wire preparation length, input side</b>	10...11 mm
<b>Wire preparation length, output side</b>	10...11 mm
<b>Product weight</b>	160.00 g

### Colors & materials

<b>Casing material</b>	Plastic
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### Temperatures & operating conditions

<b>Ambient temperature range</b>	-25...+60 °C
<b>Maximum temperature at tc test point</b>	75 °C

### Lifespan

<b>ECG lifetime</b>	50000 h <sup>1)</sup>
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<sup>1)</sup> At maximum T<sub>c</sub> / 10% failure rate

### Additional product data

<b>Design / version</b>	With cable clamp
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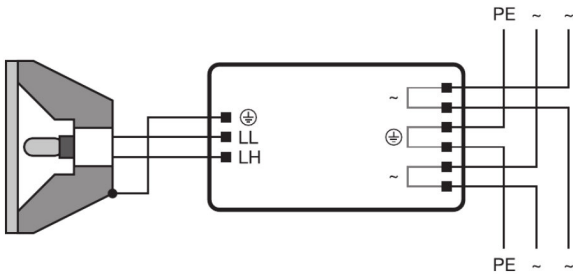
### Capabilities

<b>Max. cable length to lamp/LED module</b>	1.5 m
<b>Overheating protection</b>	Switch off at T > 75 °C at the tc point
<b>ECG reset time</b>	> 0.5 s
<b>Cable/wire types, input side</b>	NYM-J 3x1.5 / NYM-J 3x2.5 / H05VV-F 3x1.5 / NHXMH-J 3x1.5 mm <sup>2</sup>
<b>Cable/wire types, output side</b>	SIHF-J 3x1.5 / SIHF-J 3x2.5 / SIHSI 3x1.0 mm <sup>2</sup>
<b>Dimmable</b>	No
<b>Restriction on ignition time</b>	20 min
<b>Suitable for fixtures with prot. class</b>	I

### Certificates & standards

<b>Approval marks – approval</b>	ENEC 10 / VDE / VDE-EMC / EAC / C-Tick
<b>Type of protection</b>	IP20
<b>EEI – Energy Label</b>	A2
<b>Standards</b>	Acc. to EN 61347-2-12/Acc. to EN 55015/Acc. to EN 61000-3-2/Acc. to EN 61547/Acc. to EN 62493

Wiring Diagram



Wiring diagram







SAFETY ADVICE







- Ballast losses and lamp heat radiation can lead to heat accumulation in a completely closed case. Therefore it is necessary to ensure that the temperature at the measuring point t of the ECG does not exceed the maximum value.

ATTENTION!

For safety reasons disconnect the device before replacing the lamp!

DOWNLOAD DATA

File	
	Product Datasheet 321403_ATI PTi 20220-240 I (G+GB)
	Tender documents 339884_Tender Document for POWERTRONIC EVG.eng
	Certificates 554891_EAC PT family
	Certificates VDE ENEC Certificate 40035813
	Declarations of conformity VD EMC Certificate 40025469
	Declarations of conformity EU Declaration of Conformity 3363432

	Installation/Operation notice 334206_Technical guide - POWERTRONIC for HID-lamps (GB)
	Operating instructions 590731_EAC - PTi I PT-FIT I
	CAD data 3-dim 320676_PTi 20 I
	CAD data 3-dim 320677_PTi 20 I
	CAD data 3-dim 320678_PTi 20 I
	CAD data PDF 320672_PTi 20 I

**LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321404770	Shipping carton box 20	428 mm x 87 mm x 263 mm	3603.00 g	9.79 dm <sup>3</sup>

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

**DISCLAIMER**

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

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