

PRODUCT DATASHEET

PTi 35/220...240 S

POWERTRONIC INTELLIGENT PTi S | ECG for HID lamps, for installation in luminaires



AREAS OF APPLICATION

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

PRODUCT FAMILY BENEFITS

- Long reliable life at maximum permitted temperatures
- Compact dimensions and low weight for small luminaire designs
- Excellent thermal behavior for very high limit temperatures t_c and t_a
- Automatic safety shutdown of lamps in the event of a defect or at end of life (EoL)

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 | 39 W |
| Line current | 0.19 A ¹⁾ |
| Ignition voltage | 4.5 kVp |
| Operating frequency | 0.200...0.240 kHz |
| System wattage [AGGR] | 43.00 W |
| ECG efficiency | 91 % |
| Input voltage AC | 198...264 V |
| Nominal voltage | 220...240 V |
| Mains frequency | 50...60 Hz |
| Power factor λ | 0.95 ²⁾ |
| Inrush current | 30 A ³⁾ |
| Max. ECG no. on circuit breaker 10 A (B) | 15 ⁴⁾ |
| Max. ECG no. on circuit breaker 16 A (B) | 26 ⁴⁾ |
| Max. no. of ECGs on 16A MCB with EBN-OS | 65 ⁴⁾ |
| Protective conductor current | 0.25 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 |

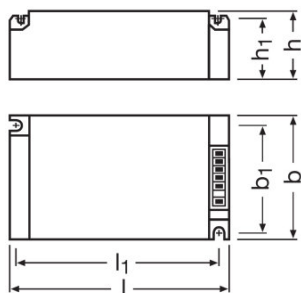
¹⁾ At 230 V_{AC}

²⁾ Minimum

³⁾ $t_{width} = 150 \mu s$ (measured at 50 % I_{peak})

⁴⁾ Type B

Dimensions & weight



| | |
|--------|----------|
| Length | 110.0 mm |
| Width | 75.0 mm |
| Height | 30.0 mm |

| | |
|---|---------------------------|
| Mounting hole spacing, length | 99.0 mm |
| Mounting hole spacing, width | 64.0 mm |
| Cable cross-section, input side | 0.5...2.5 mm ² |
| Cable cross-section, output side | 0.5...2.5 mm ² |
| Wire preparation length, input side | 10...11 mm |
| Wire preparation length, output side | 10...11 mm |
| Product weight | 250.00 g |

Colors & materials

| | |
|------------------------|-------|
| Casing material | Metal |
|------------------------|-------|

Temperatures & operating conditions

| | |
|---|--------------|
| Ambient temperature range | -25...+65 °C |
| Maximum temperature at tc test point | 85 °C |

Lifespan

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|---------------------|-----------------------|
| ECG lifetime | 50000 h ¹⁾ |
|---------------------|-----------------------|

¹⁾ At maximum T_c / 10% failure rate

Additional product data

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|-------------------------|---------------|
| Design / version | Built-in unit |
|-------------------------|---------------|

Capabilities

| | |
|---|---|
| Max. cable length to lamp/LED module | 1.5 m |
| Overheating protection | Power reduction and switch off at T > 85 °C at the tc point |
| Overvoltage protection at 275...300 V | 48 h ¹⁾ |
| Overvoltage protection at 300...320 V | 2 h ¹⁾ |
| Overvoltage protection at 320...350 V | 5 min ²⁾ |
| ECG reset time | > 0.5 s |
| Dimmable | No |
| Restriction on ignition time | 20 min |
| Suitable for fixtures with prot. class | I |

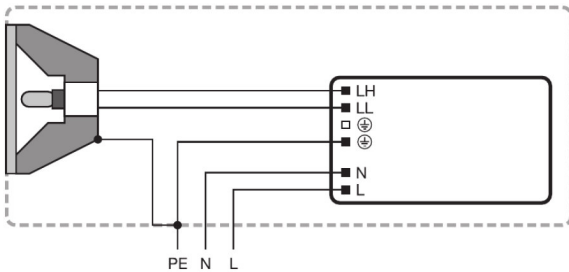
¹⁾ Control gear switches off after 40 s

²⁾ Control gear switches off or does not start

Certificates & standards

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

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!
 Any conductive material must have a minimum distance of 4 mm to the front of the terminal block.
 Installation by qualified electrician only.
 Terminals for protective earth not suitable for any through connection.

DOWNLOAD DATA

| File | |
|---|--|
|  | Addon Technical Information 58001_ADDON TECHNICAL INFORMATION PTi 35 S, PTi 70 S (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 590729_EAC - PTI S PT-FIT S |
|  | CAD data 3-dim 313434_110x75x30 9900004 |
|  | CAD data 3-dim 313482_110x75x30 9900004 |
|  | CAD data 3-dim 313512_110x75x30 9900004 |
|  | CAD data PDF 313407_110x75x30 9900004 |

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4008321074522 | Shipping carton box 20 | 412 mm x 136 mm x 186 mm | 5169.89 g | 10.42 dm ³ |

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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