

OT 150/220...240/4A9 P5

OPTOTRONIC - ON/OFF ADJ High Current IP65 | Constant current LED driver



Product family features

- Overtemperature protection
- Available with different wattage: 100 W, 150 W, 200 W
- Line voltage: 220...240 V
- Current setting via potentiometer without programming

Product family benefits

- High surge protection: up to 6 kV
- High efficiency
- Adjustable and wide output current range
- Constant current output
- Protection through double isolation between primary and secondary side (SELV)
- IP rating: IP65
- Long lifetime: up to 100,000 h

Areas of application

- Independent installation
- Street and urban lighting
- Industry
- Suitable for luminaires of protection class I

Technical data

Electrical data

| | |
|--|------------------------------|
| Nominal voltage | 220...240 V |
| Input voltage AC | 198...264 V ¹⁾ |
| Nominal current | 0.77 A |
| Mains frequency | 50...60 Hz |
| Power factor λ | > 0.98/> 0.90 ²⁾ |
| Total harmonic distortion | < 10 % |
| Device power loss | 22 W |
| Inrush current | 120 A |
| Max. ECG no. on circuit breaker 10 A (B) | 3 |
| Max. ECG no. on circuit breaker 16 A (B) | 4 |
| Max. ECG no. on circuit breaker 25 A (B) | 6 |
| Surge capability (L/N-Ground) | 6 kV |
| Surge capability (L-N) | 6 kV |
| Nominal output power | 150 W ³⁾ |
| Maximum output power | 150 W |
| Efficiency in full-load | 90 % ⁴⁾ |
| Nominal output voltage | 30...60 V |
| U-OUT (working voltage) | 75 V |
| Nominal output current | 2450...4900 mA ⁵⁾ |
| Output current tolerance | ±5 % |
| Minimum output current | 2 A |
| Galvanic isolation | double/reinforced |

¹⁾ Permitted voltage range

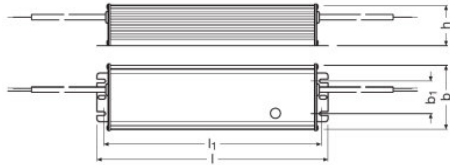
²⁾ Full load at 220...240 V_{AC}/50 Hz/Half load at 220...240 V_{AC}/50 Hz

³⁾ Partial load 74...150 W

⁴⁾ at 230 V, 50 Hz

⁵⁾ ±5%

Dimensions & weight



| | |
|-------------------------------------|---------------------|
| Length | 242.5 mm |
| Width | 68.0 mm |
| Height | 42.5 mm |
| Mounting hole spacing, length | 231.5 mm |
| Product weight | 1100.00 g |
| Cable cross-section, input side | 1.0 mm ² |
| Cable cross-section, output side | 1.0 mm ² |
| Wire preparation length, input side | 10 mm |

Temperatures & operating conditions

| | |
|--|--------------|
| Ambient temperature range | -40...+55 °C |
| Temperature range at storage | -40...+85 °C |
| Maximum temperature at tc test point | 85 °C |
| Max.housing temperature in case of fault | 110 °C |

Lifespan

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

¹⁾ At maximum T_c = 85°C / 10% failure rate / At T_c = 75°C / 10% failure rate

Expected Lifetime

| Product name | | | | |
|-------------------------------|------------------------------|---------------------|---------------------|---|
| OT 150/220...240/4A9 P5 | ECG ambient temperature [ta] | - | - | - |
| | Temperature at tc-point [°C] | 85 | 75 | - |
| | Lifetime [h] | 50000 ¹⁾ | 80000 ¹⁾ | - |

¹⁾ Max. 10% failure rate at tc max

Product datasheet

Capabilities

| | |
|--|----|
| Dimmable | No |
| Suitable for fixtures with prot. class | I |
| Intended for no-load operation | No |
| Number of channels | 1 |

Certificates & standards

| | |
|---------------------------|--|
| Type of protection | IP65 |
| Standards | Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 60598-1/Acc. to EN 62384 |
| Approval marks – approval | CCC / CE / CB |

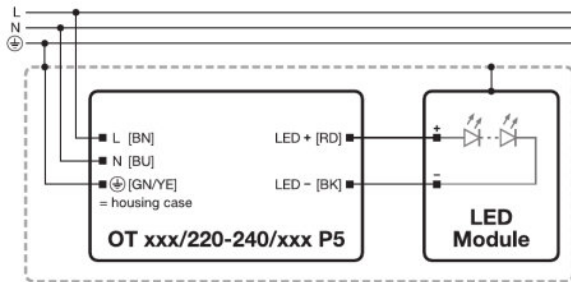
Logistical data

| | |
|----------------|--------------|
| Commodity code | 850440839000 |
|----------------|--------------|

Environmental information




| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) | |
|---|--|
| Date of Declaration | 14-04-2022 |
| Primary Article Identifier | 4052899410671 |
| Candidate List Substance 1 | Lead |
| CAS No. of substance 1 | 7439-92-1 |
| Safe Use Instruction | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| Declaration No. in SCIP database | 44a43dfd-3769-4884-b510-3f1c728e823a |

Wiring Diagram



723286_Wiring Diagramm OT XXX220-2420XXX P5

Download Data

| File | |
|---|--|
|  | Brochures 4 DIM NFC G3 CE LED drivers and T4T C (EN) |
|  | Declarations of conformity OT P5 WP CE 3218662 060921 |
|  | CAD data 3-dim OT High current 150W |

Product datasheet

Ecodesign regulation information:

Intended for use with LED modules.

The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|-------------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 4052899410671 | OT 150/220...240/4A9 P5 | Shipping carton box 10 | 312 mm x 292 mm x 212 mm | 19.31 dm ³ | 11846.00 g |

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.
