

OT FIT 50/220...240/1A0 CS

OPTOTRONIC FIT CS G1 | Compact Constant Current – Non dimmable



Areas of application

- Emergency lighting systems acc. to IEC 61347-2-13, app. J (CS version only)
- Luminaires with flexible current setting (Tri-Tap for CS version only)
- Luminaires with flexible current setting (LEDset for LT2 S version only)
- Suitable for use in emergency lighting systems, DC capable (CS version only)
- Suitable for indoor SELV installations
- Suitable for luminaires of protection classes I and II
- Suitable for downlights, spotlights and LED panels
- Independent mounting via Cable Clamp Kit possible (depending on version of product)

Product benefits

- Versatile scope of application due to output power range of up to 54 W
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection
- High efficiency
- Higher quality of light thanks to low output ripple current

Product features

- Supply voltage: 220...240 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Line voltage: 198...264 V
- Safety according to EN 61347-1, 61347-2-3, 61347-2-13, 62384
- RI suppression according to EN 55015:2007+A1:2007/CDN
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547
- Lifetime: up to 100,000 h (temperature at $T_c = 65^\circ\text{C}$, max. 10 % failure rate)
- LED protection by Hot Plug
- Independent connection via through-looping (CS version only)

Technical data

Electrical data

| | |
|--|-----------------------------------|
| Nominal voltage | 200...240 V |
| Mains frequency | 50...60 Hz |
| Input voltage AC | 198...264 V ¹⁾ |
| Input voltage DC | 176...276 V |
| Total harmonic distortion | < 10 % |
| Power factor λ | 0.95 ²⁾ |
| ECG efficiency | 89 % ³⁾ |
| Device power loss | 5.3 W ⁴⁾ |
| Inrush current | 24 A ⁵⁾ |
| Max. ECG no. on circuit breaker 10 A (B) | 17 |
| Max. ECG no. on circuit breaker 16 A (B) | 28 |
| Max. ECG no. on circuit breaker 25 A (B) | - |
| Surge capability (L/N-Ground) | 2 kV |
| Surge capability (L-N) | 1 kV |
| Nominal output voltage | 27...54 V ⁶⁾ |
| U-OUT (working voltage) | 60 V |
| Nominal output current | 800 / 900 / 1050 mA ⁷⁾ |
| Output current tolerance | ±10 % |
| Output ripple current (100 Hz) | 6 % |
| Nominal output power | 56 W ⁸⁾ |
| Galvanic isolation | SELV |

1) Permitted voltage range

2) Full load at 230 V

3) At full load and 230 V

4) Maximum

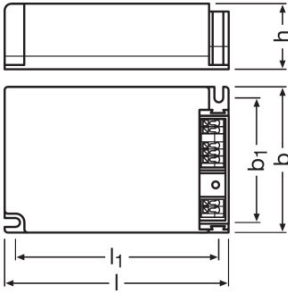
5) $t_{width} = 174 \mu s$ (measured at 50 % I_{peak})

6) Maximum 60 V

7) ±10%

8) Partial load 15...56 W

Dimensions & weight



| | |
|---|---|
| Length | 103.0 mm |
| Width | 67.0 mm |
| Height | 29.5 mm |
| Mounting hole spacing, length | 94.0 mm |
| Mounting hole spacing, width | 58.0 mm |
| Product weight | 170.00 g |
| Cable cross-section, input side | 0.2...1.5 mm ² ¹⁾ |
| Cable cross-section, output side | 0.2...1.5 mm ² ¹⁾ |
| Wire preparation length, input side | 8.5...9.5 mm |
| Wire preparation length, output side | 8.5...9.5 mm |

¹⁾ Solid or flexible leads

Colors & materials

| | |
|------------------------|---------|
| Casing material | Plastic |
|------------------------|---------|

Temperatures & operating conditions

| | |
|---|---------------------|
| Ambient temperature range | -25...+50 °C |
| Maximum temperature at tc test point | 75 °C ¹⁾ |
| Max.housing temperature in case of fault | 110 °C |
| Permitted rel. humidity during operation | 5...85 % |

¹⁾ Maximum at the T_c-point

Lifespan

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

¹⁾ At T_{case} = 75 °C at T_c point / 10% failure rate

Additional product data

| | |
|---------------------|----|
| Encapsulated | No |
|---------------------|----|

Product datasheet

Capabilities

| | |
|--|------------------------------------|
| Dimmable | No |
| Overheating protection | Automatic reversible |
| Overload protection | Automatic reversible |
| Short-circuit protection | Automatic reversible ¹⁾ |
| No-load proof | Yes |
| Max. cable length to lamp/LED module | 2.0 m |
| Suitable for fixtures with prot. class | I / II |
| Suitable for emergency lighting | Yes |
| Type of connection, output side | Push terminal |

¹⁾ A short circuit current of max. 1 A may occur. Make sure the load is designed to withstand the short circuit current as well







Certificates & standards

| | |
|---------------------------|--|
| Approval marks – approval | CE / EL |
| 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 62384 |
| Protection class | II |
| Type of protection | IP20 |

Logistical data

| | |
|------------------------------|-------------|
| Temperature range at storage | -20...70 °C |
|------------------------------|-------------|

Download Data

| File | |
|---|--|
|  | Certificates VDE ENEC Certificate 40038447 |
|  | Certificates 504176_VDE-EMC-Certificate OT_OTe_OTp_OT Fit_OTi |
|  | Declarations of conformity 489246_DoC_OT FIT CS |
|  | CAD data 685804_OT FIT Housing 3D drawings CAD Data_ISG |
|  | CAD data 685806_OT FIT Housing 3D drawings CAD Data_STEP |
|  | CAD data PDF 685805_OT FIT Housing 3D drawings CAD Data_PDF |

Logistical Data

Product datasheet

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|-------------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4052899166318 | OT FIT 50/220...240/1A0 CS | Shipping carton box 20 | 357 mm x 222 mm x 96 mm | 7.61 dm ³ | 3622.00 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.