

## PRODUCT DATASHEET

### OT FIT 50/220...240/350 D L

OPTOTRONIC® FIT D L | Linear / Area Constant Current – Non dimmable



#### Areas of application

- Linear lighting for office, education, industry, storage areas and retail
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for installation in emergency lighting systems according to EN 60598-2-22
- Suitable for luminaires of protection class I

#### Product benefits

- Small housing design
- Fixed current
- Lifetime: up to 100,000 h (temperature at  $T_c = 65^\circ\text{C}$ , max. 10 % failure rate)
- High quality of light thanks to low output ripple current
- High efficiency
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

#### Product features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 50 W
- Supply voltage: 220...240 V
- Available with output current range: up to 350 mA
- Non-isolated drivers

## TECHNICAL DATA

### Electrical data

|                                          |                           |
|------------------------------------------|---------------------------|
| Nominal wattage                          | 52.50 W                   |
| Nominal output power                     | 18.9...52.5 W             |
| Nominal voltage                          | 220...240 V               |
| Nominal output voltage                   | 54...150 V                |
| Input voltage AC                         | 198...264 V <sup>1)</sup> |
| Input voltage DC                         | 176...276 V               |
| U-OUT (working voltage)                  | < 250 V                   |
| Nominal current                          | 0.27 A                    |
| Nominal output current                   | 350 mA <sup>2)</sup>      |
| Output current tolerance                 | ±10 %                     |
| Output ripple current (100 Hz)           | < 10 %                    |
| Mains frequency                          | 0/50/60 Hz                |
| Total harmonic distortion                | < 20 %                    |
| Power factor $\lambda$                   | > 0.95 <sup>3)</sup>      |
| ECG efficiency                           | > 90 % <sup>4)</sup>      |
| Device power loss                        | 5 W <sup>5)</sup>         |
| Max. ECG no. on circuit breaker 10 A (B) | 35                        |
| Max. ECG no. on circuit breaker 16 A (B) | 56                        |
| Max. ECG no. on circuit breaker 25 A (B) | -                         |
| Surge capability (L/N-Ground)            | 2 kV                      |
| Surge capability (L-N)                   | 1 kV                      |
| Galvanic isolation                       | Non isolated              |
| Flickering metric (Pst LM)               | ≤1                        |

1) Permitted voltage range

2) ±10%

3) Full load at 230 V

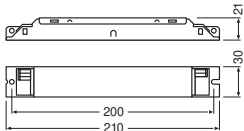
4) At full load and 230 V

5) Maximum

### Photometrical data

|                                 |      |
|---------------------------------|------|
| Flickering metric (Pst LM)      | ≤1   |
| Stroboscope effect metric (SVM) | ≤0.4 |

### Dimensions & Weight



|                                      |                              |
|--------------------------------------|------------------------------|
| Length                               | 210.00 mm                    |
| Mounting hole spacing, length        | 200,0 mm                     |
| Width                                | 30.00 mm                     |
| Height                               | 21.00 mm                     |
| Cable cross-section, input side      | 0.5...1.5 mm <sup>2</sup> 1) |
| Cable cross-section, output side     | 0.5...1.5 mm <sup>2</sup> 1) |
| Wire preparation length, input side  | 8.5...9.5 mm                 |
| Wire preparation length, output side | 8.5...9.5 mm                 |
| Product weight                       | 125.00 g                     |

1) Solid or flexible leads

Colors & materials

|                 |       |
|-----------------|-------|
| Product color   | White |
| Casing material | Metal |
| Body material   | Metal |

Temperatures & operating conditions

|                                          |              |
|------------------------------------------|--------------|
| Ambient temperature range                | -15...+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 % 2)  |

1) Maximum at the Tc-point

2) Maximum 56 days/year at 85 %

Lifespan

|              |                       |
|--------------|-----------------------|
| ECG lifetime | 50000 h / 100000 h 1) |
|--------------|-----------------------|

1) At maximum T<sub>c</sub> = 75°C / 10% failure rate / At T<sub>c</sub> = 65 °C / 10 % failure rate

Additional product data

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

Capabilities

|                                        |                      |
|----------------------------------------|----------------------|
| Dimmable                               | No                   |
| Overheating protection                 | Automatic reversible |
| Overload protection                    | Automatic reversible |
| No-load proof                          | Yes                  |
| Short-circuit protection               | Automatic reversible |
| Max. cable length to lamp/LED module   | 2,0 m                |
| Suitable for fixtures with prot. class | I                    |
| Suitable for emergency lighting        | Yes                  |
| Type of connection, output side        | Push terminal        |

### Certificates & Standards

|                           |                                                                                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | CE / EL / VDE-EMC / ENEC 10 / CCC / RCM                                                                                                             |
| Standards                 | Acc. to EN 61347-1 / Acc. to EN 61347-2-13 / Acc. to EN 55015 /<br>Acc. to EN 61547 / Acc. to EN 61000-3-2 / Acc. to EN 62384 / Acc.<br>to EN 62386 |
| Protection class          | 1                                                                                                                                                   |
| Type of protection        | IP20                                                                                                                                                |

### LOGISTICAL DATA

|                              |             |
|------------------------------|-------------|
| Temperature range at storage | -25...85 °C |
|------------------------------|-------------|

### DOWNLOAD DATA

| Documents and certificates                                                         |                            | Document name                                 |
|------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------|
|  | Declarations of conformity | EU Declaration of Conformity 3366459          |
|  | Certificates               | INOTEC Certificate OT FIT 50/350 D L          |
|  | Certificates               | 730563_VDE Certificate                        |
|  | Certificates               | 544466_CD Test Certificate                    |
|  | Certificates               | CCC Certificate 2017171002001468              |
|  | Certificates               | VDE ENEC Certificate 40038085                 |
|  | Certificates               | INOTEC Certificate OT FIT 50/350 D L appendix |
| CAD/BIM files                                                                      |                            | Document name                                 |
|  | CAD STEP 3D                | OT FIT D L STEP 261119                        |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4052899222595 | Unpacked<br>1                |                                      | 125.00 g     |                      |
| 4052899222601 | Shipping box<br>20           | 234 mm x 161 mm x 101 mm             | 2665.00 g    | 3.81 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.