

## OT FIT 40/220-240/1A0 CS T-B

OPTOTRONIC FIT CS Track | Compact constant current LED driver – Non dimmable



### Product family features

- Supply voltage: 220...240 V
- Line frequency: 50 Hz | 60 Hz
- Line voltage: 198...264 V
- Lifetime: up to 50,000 h (temperature at  $T_c = 75^\circ\text{C}$ , max. 10 % failure rate)

### Product family benefits

- High quality of light thanks to low output ripple current
- High flexibility due to four different output currents per type
- Short housing for minimum distance between spotlights
- SELV system

### Areas of application

- Track lights
- Shops and hospitality: retail, hotels, restaurants

### Technical data

#### Electrical data

|                                          |                                    |
|------------------------------------------|------------------------------------|
| Nominal input voltage                    | 220...240 V                        |
| Mains frequency                          | 50/60 Hz                           |
| Input voltage AC                         | 198...264 V                        |
| Current set                              | DipSwitch                          |
| Total harmonic distortion                | < 10 % <sup>1)</sup>               |
| Power factor $\lambda$                   | 0.91C...0.97 <sup>2)</sup>         |
| Efficiency in full-load                  | 88.5 % <sup>3)</sup>               |
| Device power loss                        | 5.5 W <sup>4)</sup>                |
| Protective conductor current             | <0.7 mA                            |
| Inrush current                           | $\leq 20 \text{ A}^{5)}$           |
| Max. ECG no. on circuit breaker 10 A (B) | 15                                 |
| Max. ECG no. on circuit breaker 16 A (B) | 25                                 |
| Surge capability (L/N-Ground)            | 2 kV                               |
| Surge capability (L-N)                   | 1 kV                               |
| Nominal output voltage                   | 27...42 V                          |
| U-OUT (working voltage)                  | 60 V                               |
| Nominal output current                   | 850 mA / 900 mA / 950 mA / 1050 mA |
| Default output current                   | 1050 mA                            |
| Output current tolerance                 | $\pm 7.5 \%$                       |
| Output ripple current (100 Hz)           | < 5 % <sup>6)</sup>                |
| Output PSTLM                             | $\leq 1$                           |
| Output SVM                               | $\leq 0.4$                         |
| Nominal output power                     | 23...44.1 W                        |
| Maximum output power                     | 44.1 W                             |

1) Full load, 230V, 50 Hz

2) Full load at 230 V / 50 Hz

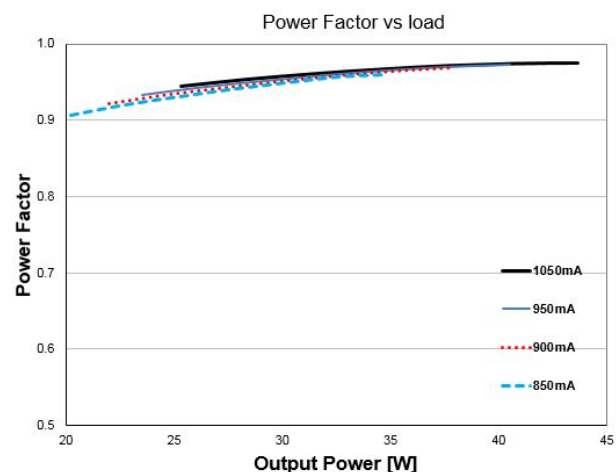
3) at 230 V, 50 Hz

4) At 230 V, Input power 49.6 W max.

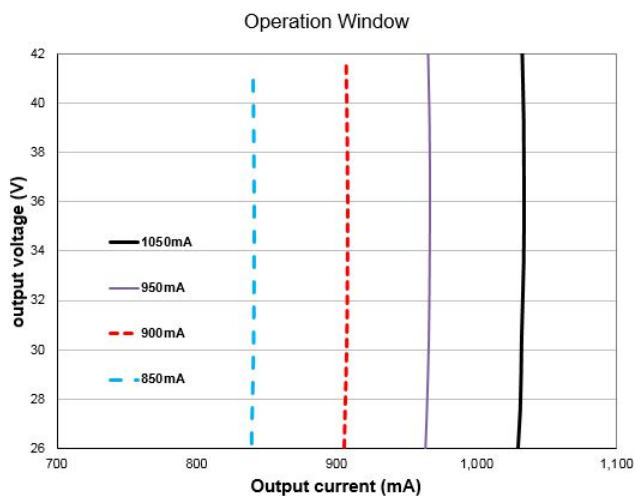
5)  $t_{\text{width}} = 200 \mu\text{s}$  (measured at 50 %  $I_{\text{peak}}$ )

6) Ripple / average @ 100 Hz

## Typical Power Factor v Load

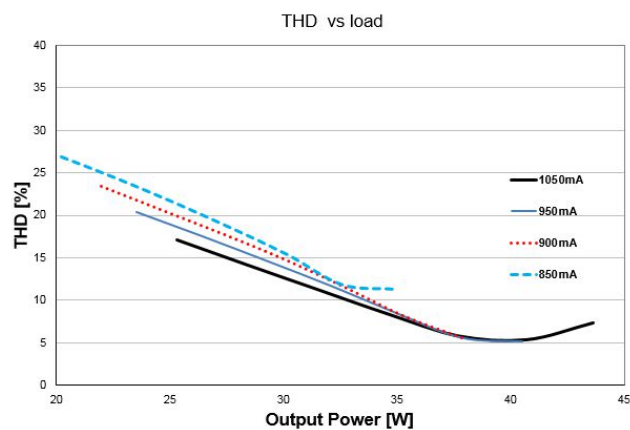


## Operating Window



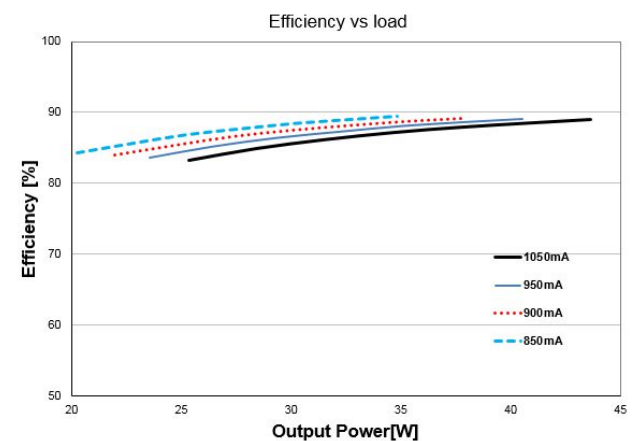
## OT FIT 40 CS T Typical Power Factor vs. Load

## Typical THD v Load



## OT FIT 40 CS T Operating Window

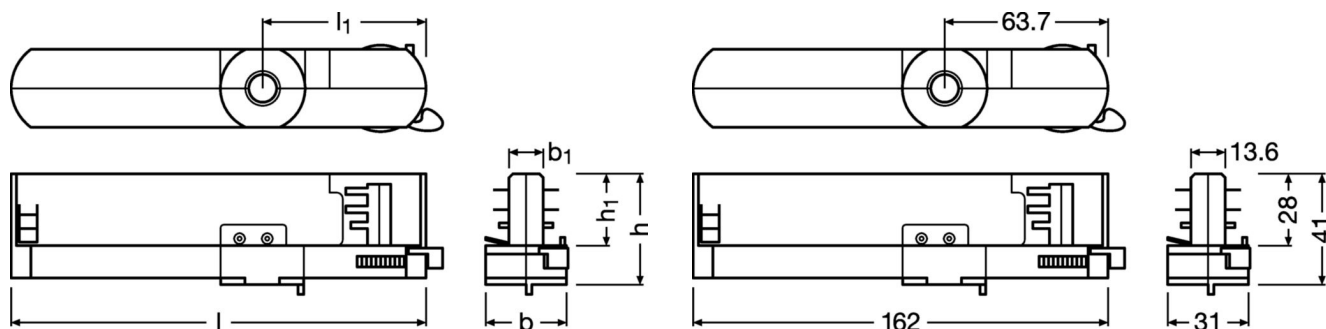
## Typical Efficiency v Load 230 V 50 Hz



## OT FIT 40 CS T Typical THD Vs Load

## OT FIT 40 CS T Typical Efficiency vs. Load (230 V / 50 Hz)

## Dimensions & weight



|                                      |                            |
|--------------------------------------|----------------------------|
| Length                               | 162.0 mm                   |
| Width                                | 32.0 mm                    |
| Height                               | 41 mm                      |
| Mounting hole spacing, length        | not relevant mm            |
| Mounting hole spacing, width         | not relevant mm            |
| Cable cross-section, input side      | not relevant               |
| Cable cross-section, output side     | 0.2...0.75 mm <sup>2</sup> |
| Wire preparation length, input side  | not relevant               |
| Wire preparation length, output side | 7...8 mm                   |
| Product weight                       | 63.60 g                    |

## Colors & materials

|                 |                |
|-----------------|----------------|
| Casing material | Plastic        |
| Product color   | BLACK RAL 9011 |

## Temperatures & operating conditions

|                                          |                           |
|------------------------------------------|---------------------------|
| Ambient temperature range                | -20...+35 °C              |
| Maximum temperature at tc test point     | 75 °C <sup>1)</sup>       |
| Max.housing temperature in case of fault | 110 °C                    |
| Temperature range at storage             | -20...80 °C <sup>2)</sup> |
| Permitted rel. humidity during operation | 5...85 % <sup>3)</sup>    |

1) Measured on tc point indicated of the product label.

2) Cool down before operating

3) Non-condensing

### Lifespan

|              |                       |
|--------------|-----------------------|
| ECG lifetime | 50000 h <sup>1)</sup> |
|--------------|-----------------------|

1) At maximum  $T_c = 75^\circ\text{C}$  / 10% failure rate

### Capabilities

|                                        |                      |
|----------------------------------------|----------------------|
| Dimmable                               | No                   |
| Max. cable length to lamp/LED module   | 2.0 m <sup>1)</sup>  |
| Suitable for fixtures with prot. class | II                   |
| Type of connection, output side        | Push terminal        |
| Suitable for through-wiring            | not relevant         |
| Number of channels                     | 1                    |
| Overheating protection                 | Automatic reversible |
| Overload protection                    | Yes                  |
| Short-circuit protection               | Yes                  |
| Intended for no-load operation         | No                   |
| No-load proof                          | Yes                  |

1) Output wires must be routed as close as possible to each other

## Programming

|                    |           |
|--------------------|-----------|
| Programming device | DIPswitch |
|--------------------|-----------|

## Certificates & standards

|                           |                                                                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | CE / ENEC / EAC / CQC / RCM <sup>1)</sup>                                                                                                               |
| Standards                 | Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to IEC 62384 / Acc. to CISPR 15 / Acc. to IEC 61000-3-2 / Acc. to IEC 61000-3-3 / Acc. to IEC 61547 |
| Type of protection        | IP20                                                                                                                                                    |
| Protection class          | 2                                                                                                                                                       |

1) In preparation

## Logistical data

|                |             |
|----------------|-------------|
| Commodity code | 85044083900 |
|----------------|-------------|

## Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |               |
|-----------------------------------------------------------------------|---------------|
| Date of Declaration                                                   | 30-05-2024    |
| Primary Article Identifier                                            | 4052899617254 |
| Declaration No. in SCIP database                                      | In work       |

### Download Data

| File                   |            |                                       |
|------------------------|------------|---------------------------------------|
| Certificates           | PDF        | ▶OT FIT CS T ENEC 35 112153 01 050723 |
| CAD data               | Compressed | ▶OT FIT 20 30 40 CS T STEP 210521     |
| Mandatory Publications | PDF        | ▶OT FIT CS T CE 4177698 06 160523     |
| Mandatory Publications | PDF        | ▶OT FIT CS T UK DoC 4281105 03 200923 |
| User instruction       | PDF        | ▶UI OT FIT CS T                       |

### 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<br>(Pieces/Unit)  | Dimensions (length<br>x width x height) | Volume                | Gross weight |
|---------------|---------------------------------|----------------------------------|-----------------------------------------|-----------------------|--------------|
| 4052899617254 | OT FIT 40/220-240/1A0<br>CS T-B | Shipping carton box<br>20 Pieces | 425 x 241 x 141 mm                      | 14.44 dm <sup>3</sup> | 1819.00 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

## Accessories Optional

| Product description          | Accessory name | Accessory code  |
|------------------------------|----------------|-----------------|
| OT FIT 40/220-240/1A0 CS T-B | Track Joint    | ▶ 4062172228183 |
| OT FIT 40/220-240/1A0 CS T-B | BLACK RING     | ▶ 4062172138567 |

## Disclaimer

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