

## OPTOTRONIC FIT CS

Compact Constant Current LED Drivers – Non dimmable



### Areas of application

- Suitable for downlights, spotlights and LED panels
- Suitable for luminaires of protection classes I and II

### Product benefits

- High quality of light thanks to low output ripple current
- High flexibility due to four different output currents
- Small housing for flexible luminaire designs
- High efficiency

### Product features

- Supply voltage: 220...240 V
- Line frequency: 50 Hz | 60 Hz
- Line voltage: 198...264 V
- Safety according to EN 61347-1, 61347-2-13, 62384
- RI suppression: to EN 55015
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547
- Lifetime: up to 50,000 h (temperature at  $T_c = 70\text{ }^\circ\text{C}$ , max. 10 % failure rate)
- Cable clamp kit for independent mounting

## Product family datasheet

### Technical data

#### Electrical data

| Product description        | Nominal voltage | Mains frequency | Input voltage AC | Total harmonic distortion | Power factor $\lambda$ | ECG efficiency     |
|----------------------------|-----------------|-----------------|------------------|---------------------------|------------------------|--------------------|
| OT FIT 20/220...240/500 CS | 220...240 V     | 50...60 Hz      | 198...264 V      | < 10 %                    | 0.98                   | 87 % <sup>1)</sup> |
| OT FIT 30/220...240/700 CS | 220...240 V     | 50...60 Hz      | 198...264 V      | < 10 %                    | 0.98                   | 89 % <sup>1)</sup> |
| OT FIT 40/220...240/1A0 CS | 220...240 V     | 50...60 Hz      | 198...264 V      | < 10 %                    | 0.98                   | 90 % <sup>1)</sup> |

| Product description        | Device power loss   | Protective conductor current | Inrush current       | Max. ECG no. on circuit breaker 10 A (B) | Max. ECG no. on circuit breaker 16 A (B) |
|----------------------------|---------------------|------------------------------|----------------------|--|--|
| OT FIT 20/220...240/500 CS | 3.0 W <sup>2)</sup> | <0.7 mA                      | < 16 A <sup>3)</sup> | 30                                       | 50                                       |
| OT FIT 30/220...240/700 CS | 3.5 W <sup>4)</sup> | <0.7 mA                      | < 16 A <sup>3)</sup> | 15                                       | 25                                       |
| OT FIT 40/220...240/1A0 CS | 4.9 W <sup>5)</sup> | <0.7 mA                      | < 16 A <sup>3)</sup> | 15                                       | 25                                       |

| Product description        | Max. ECG no. on circuit breaker 25 A (B) | Surge capability (L/N-Ground) | Surge capability (L-N) | Nominal output voltage |
|----------------------------|--|-------------------------------|------------------------|------------------------|
| OT FIT 20/220...240/500 CS | -  | 2 kV                          | 1 kV                   | 25...42 V              |
| OT FIT 30/220...240/700 CS | -  | 2 kV                          | 1 kV                   | 25...42 V              |
| OT FIT 40/220...240/1A0 CS | -  | 2 kV                          | 1 kV                   | 25...42 V              |

| Product description        | U-OUT (working voltage) | Nominal output current    | Output current tolerance | Output ripple current (100 Hz) | Nominal output power |
|----------------------------|-------------------------|---------------------------|--------------------------|--------------------------------|----------------------|
| OT FIT 20/220...240/500 CS | 60 V                    | 250 / 350 / 450 / 500 mA  | ±7.5 %                   | < 5 %                          | 6.5...21 W           |
| OT FIT 30/220...240/700 CS | 60 V                    | 500 / 600 / 700 / 650 mA  | ±7.5 %                   | < 5 %                          | 11.5...29.4 W        |
| OT FIT 40/220...240/1A0 CS | 60 V                    | 800 / 900 / 1050 / 950 mA | ±7.5 %                   | < 5 %                          | 20...44 W            |

| Product description        | Galvanic isolation |
|----------------------------|--------------------|
| OT FIT 20/220...240/500 CS | SELV               |
| OT FIT 30/220...240/700 CS | SELV               |
| OT FIT 40/220...240/1A0 CS | SELV               |

<sup>1)</sup> At full load and 230 V

<sup>2)</sup> At 230 V, Input power 24 W max.

<sup>3)</sup>  $t_{width} = 100 \mu s$  (measured at 50 %  $I_{peak}$ )

<sup>4)</sup> At 230 V, Input power 34 W max.

<sup>5)</sup> At 230 V, Input power 49 W max.

## Product family datasheet

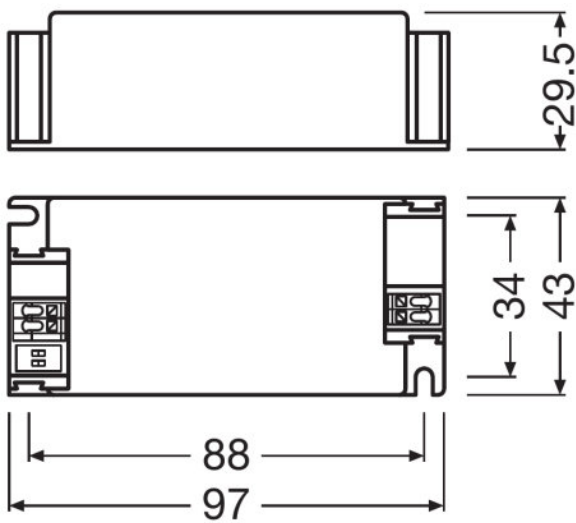
### Dimensions & weight

| Product description        | Length  | Width   | Height  | Mounting hole spacing, length | Mounting hole spacing, width | Product weight |
|----------------------------|---------|---------|---------|-------------------------------|------------------------------|----------------|
| OT FIT 20/220...240/500 CS | 97.0 mm | 43.0 mm | 29.5 mm | 88.0 mm                       | 34.0 mm                      | 85.00 g        |
| OT FIT 30/220...240/700 CS | 97.0 mm | 43.0 mm | 29.5 mm | 88.0 mm                       | 34.0 mm                      | 90.00 g        |
| OT FIT 40/220...240/1A0 CS | 97.0 mm | 43.0 mm | 29.5 mm | 88.0 mm                       | 34.0 mm                      | 110.00 g       |

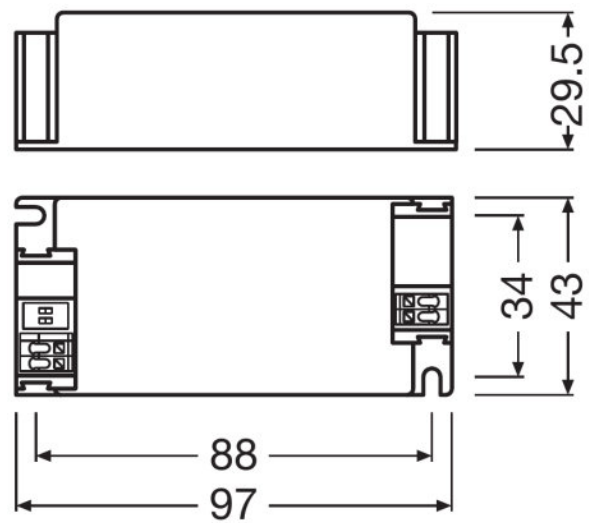
  

| Product description        | Cable cross-section, input side | Cable cross-section, output side | Wire preparation length, input side | Wire preparation length, output side |
|----------------------------|---------------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| OT FIT 20/220...240/500 CS | 0.5...1.5 mm <sup>2</sup>       | 0.5...1.5 mm <sup>2</sup>        | 7...8 mm                            | 7...8 mm                             |
| OT FIT 30/220...240/700 CS | 0.5...1.5 mm <sup>2</sup>       | 0.5...1.5 mm <sup>2</sup>        | 7...8 mm                            | 7...8 mm                             |
| OT FIT 40/220...240/1A0 CS | 0.5...1.5 mm <sup>2</sup>       | 0.5...1.5 mm <sup>2</sup>        | 7...8 mm                            | 7...8 mm                             |

### Product line drawing



OT FIT 20/220...240/500 CS



OT FIT 30/220...240/700 CS, OT FIT 40/220...240/1A0 CS

### Colors & materials

| Product description        | Casing material |
|----------------------------|-----------------|
| OT FIT 20/220...240/500 CS | Plastic         |
| OT FIT 30/220...240/700 CS | Plastic         |
| OT FIT 40/220...240/1A0 CS | Plastic         |

## Product family datasheet

### Temperatures & operating conditions

| Product description        | Ambient temperature range | Maximum temperature at tc test point | Max.housing temperature in case of fault | Permitted rel. humidity during operation |
|----------------------------|---------------------------|--------------------------------------|--|--|
| OT FIT 20/220...240/500 CS | -20...+50 °C              | 80 °C                                | 110 °C                                   | 5...85 % <sup>1)</sup>                   |
| OT FIT 30/220...240/700 CS | -20...+50 °C              | 80 °C                                | 110 °C                                   | 5...85 % <sup>1)</sup>                   |
| OT FIT 40/220...240/1A0 CS | -20...+50 °C              | 75 °C                                | 110 °C                                   | 5...85 % <sup>1)</sup>                   |

<sup>1)</sup> Maximum 56 days/year at 85 %

### Lifespan

| Product description        | ECG lifetime                  |
|----------------------------|-------------------------------|
| OT FIT 20/220...240/500 CS | 50000 / 30000 h <sup>1)</sup> |
| OT FIT 30/220...240/700 CS | 50000 / 30000 h <sup>1)</sup> |
| OT FIT 40/220...240/1A0 CS | 50000 / 30000 h <sup>1)</sup> |

<sup>1)</sup>  $T_c = 70^\circ\text{C}$ , with max. 10% failure rate

### Additional product data

| Product description        | Encapsulated |
|----------------------------|--------------|
| OT FIT 20/220...240/500 CS | No           |
| OT FIT 30/220...240/700 CS | No           |
| OT FIT 40/220...240/1A0 CS | No           |

### Capabilities

| Product description        | Dimmable | Overheating protection | Overload protection  |
|----------------------------|----------|------------------------|----------------------|
| OT FIT 20/220...240/500 CS | No       | Automatic reversible   | Automatic reversible |
| OT FIT 30/220...240/700 CS | No       | Automatic reversible   | Automatic reversible |
| OT FIT 40/220...240/1A0 CS | No       | Automatic reversible   | Automatic reversible |

| Product description        | Short-circuit protection | No-load proof | Max. cable length to lamp/LED module | Suitable for fixtures with prot. class |
|----------------------------|--------------------------|---------------|--------------------------------------|--|
| OT FIT 20/220...240/500 CS | Automatic reversible     | Yes           | 2.0 m                                | II                                     |
| OT FIT 30/220...240/700 CS | Automatic reversible     | Yes           | 2.0 m                                | II                                     |
| OT FIT 40/220...240/1A0 CS | Automatic reversible     | Yes           | 2.0 m                                | II                                     |

| Product description        | Type of connection, output side |
|----------------------------|---------------------------------|
| OT FIT 20/220...240/500 CS | Push terminal                   |
| OT FIT 30/220...240/700 CS | Push terminal                   |
| OT FIT 40/220...240/1A0 CS | Push terminal                   |

## Product family datasheet

### Certificates & standards

| Product description        | Approval marks – approval |
|----------------------------|---------------------------|
| OT FIT 20/220...240/500 CS | CCC / CE / RCM / ENEC 05  |
| OT FIT 30/220...240/700 CS | CCC / CE / RCM / ENEC 05  |
| OT FIT 40/220...240/1A0 CS | CCC / CE / RCM / ENEC 05  |

| Product description        | Standards   | Type of protection |
|----------------------------|---|--------------------|
| OT FIT 20/220...240/500 CS | 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 | IP20               |
| OT FIT 30/220...240/700 CS | 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 | IP20               |
| OT FIT 40/220...240/1A0 CS | 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 | IP20               |

### Logistical data

| Product description        | Temperature range at storage |
|----------------------------|------------------------------|
| OT FIT 20/220...240/500 CS | -20...80 °C                  |
| OT FIT 30/220...240/700 CS | -20...80 °C                  |
| OT FIT 40/220...240/1A0 CS | -20...80 °C                  |




### Application advice

For more detailed application information and graphics please see product datasheet.

### Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

### Download Data

| File   |
|--|
|  User instruction<br>OPTOTRONIC LED Power Supply    |
|  Product Datasheet<br>730299_OT FIT 20220-240500 CS |
|  Certificates<br>Certificate 2196588.02 ENEC        |

## Product family datasheet



Declarations of conformity  
489246\_DoC\_OT FIT CS



Product Datasheet  
730300\_OT FIT 30220-240700 CS



Product Datasheet  
730301\_OT FIT 40220-2401A0 CS

### Logistical Data

| Product code  | Product description        | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume               | Gross weight |
|---------------|----------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4052899435612 | OT FIT 20/220...240/500 CS | Shipping carton box<br>20    | 228 mm x 208 mm x 78 mm              | 3.70 dm <sup>3</sup> | 1806.00 g    |
| 4052899435636 | OT FIT 30/220...240/700 CS | Shipping carton box<br>20    | 228 mm x 208 mm x 78 mm              | 3.70 dm <sup>3</sup> | 1906.00 g    |
| 4052899435650 | OT FIT 40/220...240/1A0 CS | Shipping carton box<br>20    | 228 mm x 208 mm x 78 mm              | 3.70 dm <sup>3</sup> | 2306.00 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 20/220...240/500 CS | OT CABLE CLAMP D-STYLE | ▶ 4052899077904 |
| OT FIT 30/220...240/700 CS | OT CABLE CLAMP D-STYLE | ▶ 4052899077904 |
| OT FIT 40/220...240/1A0 CS | OT CABLE CLAMP D-STYLE | ▶ 4052899077904 |

### Disclaimer

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