

## PRODUCT DATASHEET

### OT FIT 40/220...240/1A0 CS

OPTOTRONIC® FIT CS | Constant Current - Indoor - on/off



#### 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
- 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  $T_c = 70^\circ\text{C}$ , max. 10 % failure rate)
- Cable clamp kit for independent mounting

TECHNICAL DATA

Electrical data

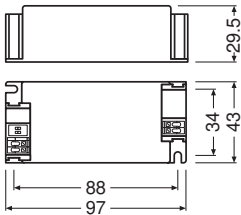
|                                          |                                    |
|------------------------------------------|------------------------------------|
| Nominal wattage                          | 40.00 W                            |
| Nominal output power                     | 20...44 W                          |
| Nominal voltage                          | 220...240 V                        |
| Nominal output voltage                   | 25...42 V                          |
| Input voltage AC                         | 198...264 V                        |
| U-OUT (working voltage)                  | 60 V                               |
| Nominal current                          | 0.19 A                             |
| Nominal output current                   | 800 mA / 900 mA / 1050 mA / 950 mA |
| Inrush current                           | 16 A                               |
| Output current tolerance                 | ±7,5 %                             |
| Output ripple current (100 Hz)           | < 5 %                              |
| Mains frequency                          | 50/60 Hz                           |
| Total harmonic distortion                | < 10 % <sup>1)</sup>               |
| Power factor λ                           | 0.98                               |
| ECG efficiency                           | 90 % <sup>2)</sup>                 |
| Device power loss                        | 4,9 W <sup>3)</sup>                |
| Max. ECG no. on circuit breaker 10 A (B) | 16                                 |
| Max. ECG no. on circuit breaker 16 A (B) | 25                                 |
| Max. ECG no. on circuit breaker 25 A (B) | -                                  |
| Surge capability (L/N-Ground)            | 2 kV                               |
| Surge capability (L-N)                   | 1 kV                               |
| Galvanic isolation                       | SELV                               |

1) At full load, 230 V, 50 Hz / see graphs

2) At full load and 230 V / At 50 Hz

3) At 230 V, Input power 49 W max.

Dimensions & Weight



|        |          |
|--------|----------|
| Length | 97.00 mm |
|--------|----------|

|                                      |                           |
|--------------------------------------|---------------------------|
| Mounting hole spacing, length        | 88,0 mm                   |
| Width                                | 43.00 mm                  |
| Height                               | 29.50 mm                  |
| Cable cross-section, input side      | 0.5...1.5 mm <sup>2</sup> |
| Cable cross-section, output side     | 0.5...1.5 mm <sup>2</sup> |
| Wire preparation length, input side  | 7...8 mm                  |
| Wire preparation length, output side | 7...8 mm                  |
| Product weight                       | 110.00 g                  |

### Colors & materials

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

### Temperatures & operating conditions

|                                          |                        |
|------------------------------------------|------------------------|
| Ambient temperature range                | -20...+50 °C           |
| Maximum temperature at tc test point     | 80 °C                  |
| Max.housing temperature in case of fault | 110 °C                 |
| Permitted rel. humidity during operation | 5...85 % <sup>1)</sup> |

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

### Lifespan

|              |                                 |
|--------------|---------------------------------|
| ECG lifetime | 50000 h / 30000 h <sup>1)</sup> |
|--------------|---------------------------------|

<sup>1)</sup> T<sub>c</sub> = 70°C, with max. 10% failure rate / T<sub>c</sub> = 80°C, with max. 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 | II                   |
| Type of connection, output side        | Push terminal        |

### Certificates & Standards

|                           |                                                                                                                                                               |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | CCC / CE / RCM / ENEC 05                                                                                                                                      |
| Standards                 | Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to IEC 62384 /<br>Acc. to CISPR 15 / Acc. to IEC 61000-3-2 / Acc. to IEC 61000-3-3 /<br>Acc. to IEC 61547 |
| Protection class          | II                                                                                                                                                            |
| Type of protection        | IP20                                                                                                                                                          |

## LOGISTICAL DATA

|                              |             |
|------------------------------|-------------|
| Temperature range at storage | -20...80 °C |
|------------------------------|-------------|

## DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                            |
|------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------|
|    | User instruction / safety instructions | OPTOTRONIC LED Power Supply              |
|    | User instruction / safety instructions | OPTOTRONIC® LED Power Supply             |
|    | User instruction / safety instructions | OPTOTRONIC LED Power Supply              |
|  | Declarations of conformity             | 489246_DoC_OT FIT CS                     |
|  | Declarations of conformity             | EU Declaration of Conformity 3667905     |
|  | Certificates                           | OT FIT 20 30 40 CS ENEC 35 104727 221019 |
|  | Certificates                           | Certificate 2196588.02 ENEC              |
|  | Certificates                           | CCC Certificate 2018171002002233         |
|  | Certificates                           | CCC Certificate 2018171002002234         |
|  | Certificates                           | OT FIT 20 30 40 CS EMC 4330577 01 221019 |

| CAD/BIM files                                                                      |                 | Document name                        |
|------------------------------------------------------------------------------------|-----------------|--------------------------------------|
|  | CAD data 3D PDF | CAD Data OT FIT 30,40/220-240/CS.pdf |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|--------|
| 4052899435650 | Unpacked<br>1                |                                      |              |        |

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4052899435667 | Shipping box<br>20           | 228 mm x 208 mm x 78 mm              | 2306.00 g    | 3.70 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.