

## OT FIT 38/220-240/900 CS S MINI

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



### Areas of application

- Extra small design for downlights, spotlights and other indoor luminaires
- Suitable for luminaires of protection classes I and II
- Suitable for indoor SELV installations

### Product family benefits

- Small housing for flexible luminaire designs
- Higher quality of light thanks to < 3% output ripple current
- Operating temperature: up to 60 °C
- User flexibility with four different output currents from one driver
- Flexible current selection via DIP switch
- Reversible overtemperature, overload, short-circuit and open-circuit protection
- High efficiency (up to 90%)



## Product datasheet

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### Product family 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 according to CISPR 15
- Line harmonics according to IEC 61000-3-2
- Immunity according to IEC 61547

## Technical data

### Electrical data

|                                          |                                  |
|------------------------------------------|----------------------------------|
| Nominal input voltage                    | 220...240 V                      |
| Mains frequency                          | 50/60 Hz                         |
| Input voltage AC                         | 198...264 V <sup>1)</sup>        |
| Total harmonic distortion                | < 10 % <sup>2)</sup>             |
| Power factor $\lambda$                   | 0.95 <sup>3)</sup>               |
| ECG efficiency                           | 90 % <sup>4)</sup>               |
| Device power loss                        | 4.2 W <sup>5)</sup>              |
| Inrush current                           | 13.4 A                           |
| Max. ECG no. on circuit breaker 10 A (B) | 16                               |
| Max. ECG no. on circuit breaker 10 A (C) | 26                               |
| Max. ECG no. on circuit breaker 16 A (B) | 26                               |
| Max. ECG no. on circuit breaker 16 A (C) | 43                               |
| Surge capability (L/N-Ground)            | 2 kV                             |
| Surge capability (L-N)                   | 1 kV                             |
| Nominal output voltage                   | 30...42 V                        |
| U-OUT (working voltage)                  | 60 V                             |
| Nominal output current                   | 800/850/875/900 mA <sup>6)</sup> |
| Output current tolerance                 | $\pm 7.5$ %                      |
| Output ripple current (100 Hz)           | < 3 % <sup>7)</sup>              |
| Output PSTLM                             | $\leq 1$                         |
| Output SVM                               | $\leq 0.4$                       |
| Nominal output power                     | 27...37.8 W                      |
| Galvanic isolation                       | SELV                             |
| Current set                              | DipSwitch                        |

<sup>1)</sup> Safety voltage range

<sup>2)</sup> At full load, 230 V, 50 Hz / see graphs

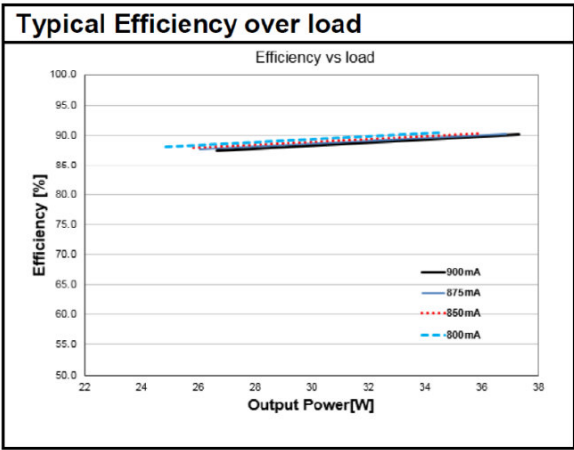
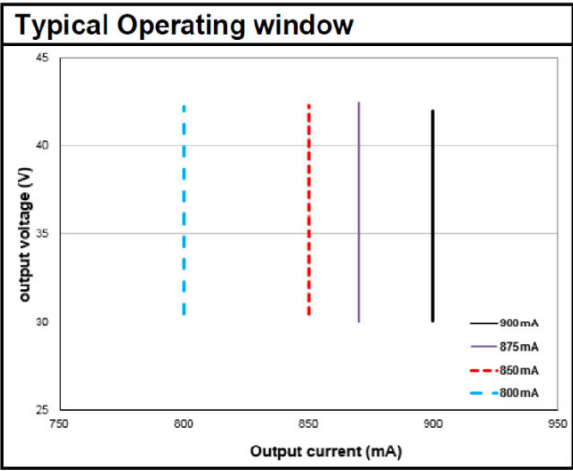
<sup>3)</sup> Full load at 230 V/50 Hz

<sup>4)</sup> At full load and 230 V / At 50 Hz

<sup>5)</sup> At 230 V, Input power 42 W max.

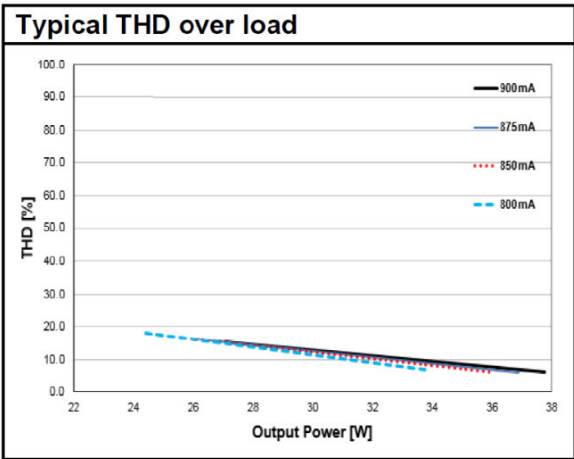
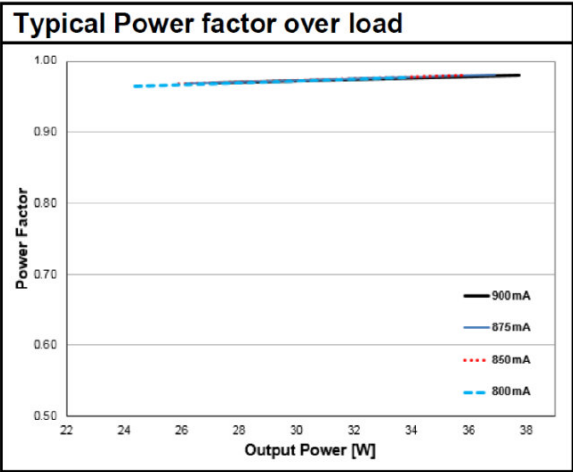
<sup>6)</sup>  $\pm 7.5$  %

<sup>7)</sup> Ripple average at 100 Hz



Operating Window

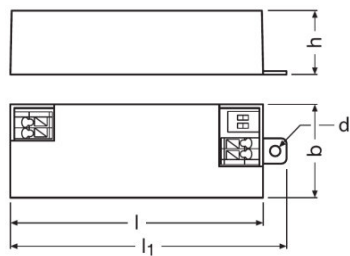
Typical Efficiency v Load 230 V 50 Hz



Typical Power Factor v Load

Typical THD v Load

Dimensions & weight



|                                      |                                           |
|--------------------------------------|-------------------------------------------|
| Product weight                       | 90.20 g                                   |
| Cable cross-section, input side      | 0.5...1.5 / 0.75...1.5 mm <sup>2 1)</sup> |
| Cable cross-section, output side     | 0.5...1.5 / 0.75...1.5 mm <sup>2 1)</sup> |
| Wire preparation length, input side  | 7...8 mm                                  |
| Wire preparation length, output side | 7...8 mm                                  |
| Length                               | 87.0 mm                                   |
| Width                                | 35.0 mm                                   |
| Height                               | 22.0 mm                                   |

<sup>1)</sup> Solid/ Flexible Leads

Colors & materials

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

Temperatures & operating conditions

|                                          |                                      |
|------------------------------------------|--------------------------------------|
| Ambient temperature range                | -20...+55/-20...+60 °C <sup>1)</sup> |
| Maximum temperature at tc test point     | 95 °C <sup>2)</sup>                  |
| Max.housing temperature in case of fault | 110 °C                               |
| Temperature range at storage             | -20...80 °C                          |
| Permitted rel. humidity during operation | 5...85 % <sup>3)</sup>               |

<sup>1)</sup> At output currents 850/875/900 mA/At output currents 800 mA

<sup>2)</sup> Measured on tc point indicated on the product label.

<sup>3)</sup> Non-condensing

Lifespan

|              |                               |
|--------------|-------------------------------|
| ECG lifetime | 35000 / 50000 h <sup>1)</sup> |
|--------------|-------------------------------|

<sup>1)</sup> At maximum T<sub>C</sub> = 95°C / 10% failure rate / At maximum T<sub>C</sub> = 85°C / 10% failure rate

Additional product data

## Product datasheet

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

### Capabilities

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

### Programming

|                        |           |
|------------------------|-----------|
| Tuner4TRONIC           | No        |
| Tuner4TRONIC Field App | No        |
| Programming device     | DIPswitch |

### Certificates & standards

|                           |                                                                                                                            |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | ENEC 05 / CCC / CE / RCM                                                                                                   |
| Standards                 | Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547 |
| Type of protection        | IP20                                                                                                                       |

### Logistical data

|                |              |
|----------------|--------------|
| Commodity code | 850440829000 |
|----------------|--------------|

### Download Data

| File                                                                                |                                                                |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | User instruction<br>OPTOTRONIC LED Power Supply                |
|  | Certificates<br>OT FIT CS S MINI ENEC 35 106287 221019         |
|  | Declarations of conformity<br>OT FIT CS MINI CE 3669357 211119 |
|  | CAD data<br>OT FIT MINI CS S - built in step                   |
|  | CAD data 3-dim<br>OT FIT MINI CS S - built in 3D               |

## Product datasheet

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### Logistical Data

| Product code  | Product description                | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume               | Gross weight |
|---------------|------------------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4052899587984 | OT FIT 38/220-240/900<br>CS S MINI | Shipping carton box<br>20    | 187 mm x 186 mm x 64 mm              | 2.23 dm <sup>3</sup> | 1980.00 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.

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### Disclaimer

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