

## OT FIT 35/220...240/700 CS L G2

OPTOTRONIC FIT CS L G2 | Linear / Area Constant Current – Non dimmable



### Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 75 W
- Supply voltage: 220...240 V
- Available with output current range: up to 1,400 mA
- SELV system

### Product family benefits

- Flexible current setting (DIPswitch – 4 currents)
- Lifetime: up to 100,000 h (temperature at  $T_c = 65^\circ\text{C}$ , max. 10 % failure rate)
- High efficiency
- High quality of light thanks to low output ripple current
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

## 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 luminaires of protection class I

## Technical data

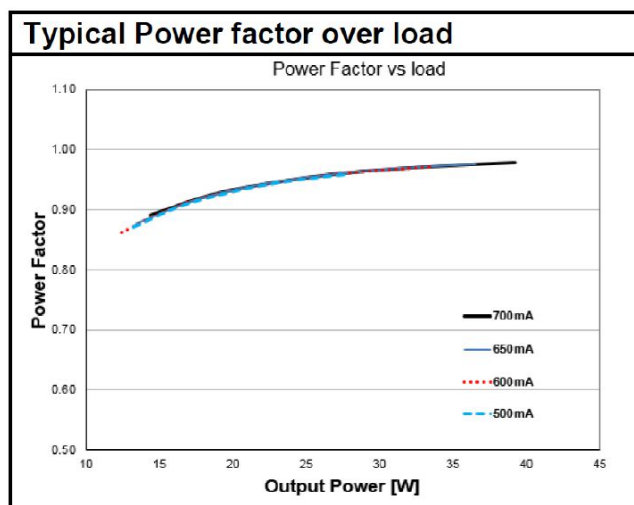
### Electrical data

|  |                                   |
|--|-----------------------------------|
| Nominal input voltage                    | 220...240 V                       |
| Mains frequency                          | 0/50/60 Hz                        |
| Input voltage AC                         | 198...264 V <sup>1)</sup>         |
| Input voltage DC                         | 176...276 V                       |
| Current set                              | DipSwitch                         |
| Total harmonic distortion                | < 10 %                            |
| Power factor $\lambda$                   | 0.85C...0.98                      |
| Efficiency in full-load                  | 85 % <sup>2)</sup>                |
| Device power loss                        | 5.8 W                             |
| Protective conductor current             | 0.5 mA                            |
| Inrush current                           | 16 A                              |
| Max. ECG no. on circuit breaker 10 A (B) | 21                                |
| Max. ECG no. on circuit breaker 16 A (B) | 34                                |
| Surge capability (L/N-Ground)            | 2 kV                              |
| Surge capability (L-N)                   | 1 kV                              |
| Nominal output voltage                   | 27...51 V                         |
| U-OUT (working voltage)                  | < 60 V                            |
| Nominal output current                   | 500 mA / 600 mA / 650 mA / 700 mA |
| Default output current                   | 700 mA                            |
| Output current tolerance                 | $\pm 7.5$ %                       |
| Output ripple current (100 Hz)           | < 5 %                             |
| Output PSTLM                             | $\leq 1$                          |
| Output SVM                               | $\leq 0.4$                        |
| Nominal output power                     | 13.5...35.7 W                     |
| Maximum output power                     | 35.7 W                            |
| Galvanic isolation                       | SELV                              |

1) Permitted voltage range

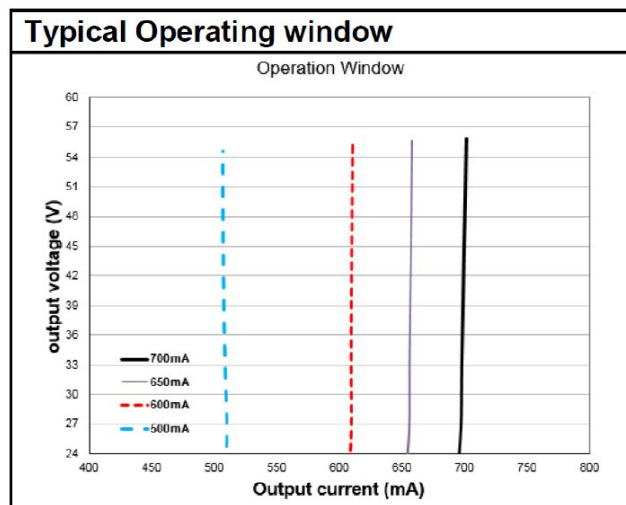
2) at 230 V, 50 Hz

## Typical Power Factor v Load



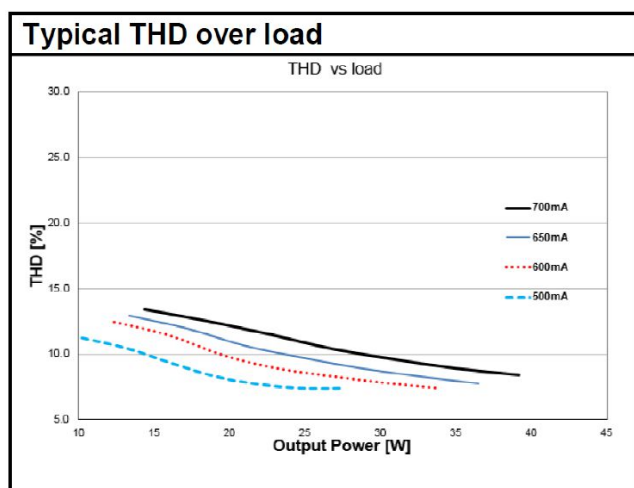
OT FIT 35/220-240/700 CS L G2 Typical Power Factor vs. Load

## Operating Window



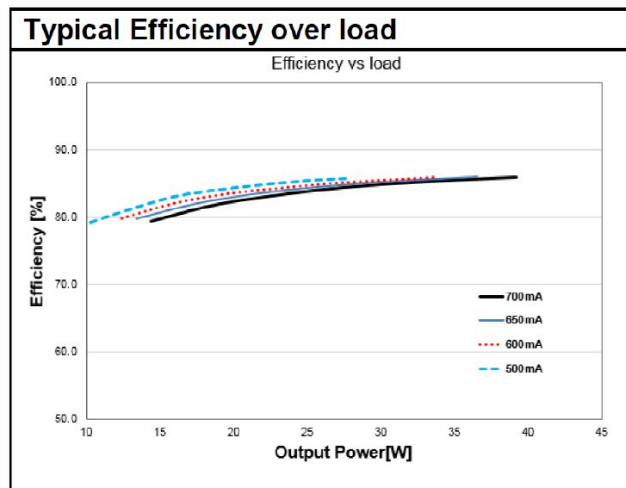
OT FIT 35/220-240/700 CS L G2 Operating Window

## Typical THD v Load



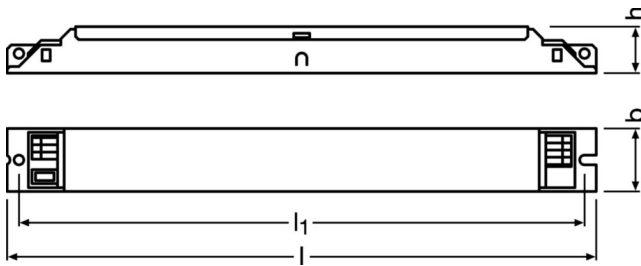
OT FIT 35/220-240/700 CS L G2 Typical THD Vs Load

## Typical Efficiency v Load 230 V 50 Hz



OT FIT 35/220-240/700 CS L G2 Typical Efficiency vs. Load (230 V / 50 Hz)

## Dimensions & weight



|                                      |                           |
|--------------------------------------|---------------------------|
| Length                               | 280.0 mm                  |
| Width                                | 30.0 mm                   |
| Height                               | 21.0 mm                   |
| Mounting hole spacing, length        | 270.0 mm                  |
| Mounting hole spacing, width         | not relevant 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  | 8.5...9.5 mm              |
| Wire preparation length, output side | 8.5...9.5 mm              |
| Product weight                       | 205.00 g                  |

## Colors & materials

|                 |       |
|-----------------|-------|
| Casing material | Metal |
|-----------------|-------|

## Temperatures & operating conditions

|  |                        |
|--|------------------------|
| Ambient temperature range                | -25...+50 °C           |
| Maximum temperature at tc test point     | 80 °C                  |
| Max.housing temperature in case of fault | 110 °C                 |
| Temperature range at storage             | -25...85 °C            |
| Permitted rel. humidity during operation | 5...85 % <sup>1)</sup> |

1) Maximum 56 days/year at 85 %

## Lifespan

|              |                                  |
|--------------|----------------------------------|
| ECG lifetime | 50000 h / 100000 h <sup>1)</sup> |
|--------------|----------------------------------|

1) At maximum  $T_c = 75^\circ\text{C}$  / 10% failure rate / At  $T_c = 65^\circ\text{C}$  / 10% failure rate

## Additional product data

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

## Capabilities

|  |                      |
|--|----------------------|
| Programming interface                  | Dipswitch            |
| Dimmable                               | No                   |
| Constant lumen function                | No                   |
| Max. cable length to lamp/LED module   | 2.0 m <sup>1)</sup>  |
| Suitable for fixtures with prot. class | I                    |
| Suitable for emergency lighting        | Yes                  |
| Type of connection, input side         | Push terminal        |
| Type of connection, output side        | Push terminal        |
| Number of channels                     | 1                    |
| Overheating protection                 | Automatic reversible |
| Overload protection                    | Non-reversible       |
| Short-circuit protection               | Automatic reversible |
| 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 / EL / ENEC 05 / EAC / CCC / RCM / BIS  |
| Standards                 | Acc. to EN 61347-1 / Acc. to EN 61347-2-13 / Acc. to EN 62384 / Acc. to EN 61000-3-2 / Acc. to EN 61000-3-3 / Acc. to EN 61547 |
| Type of protection        | IP20   |
| Protection class          | 1  |

## Logistical data

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

## Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |  |
|---|--|
| Date of Declaration   | 22-03-2024   |
| Primary Article Identifier  | 4052899522534   4052899569096  |
| Candidate List Substance 1  | Lead   |
| CAS No. of substance 1  | 7439-92-1  |
| Safe Use Instruction  | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| Declaration No. in SCIP database                                      | 6b4d6e18-2d72-41af-a5ff-7f831bfb3e76   |

## Download Data

| File                       |     |   |
|----------------------------|-----|---|
| Certificates               | PDF | ▶ INOTEC Certificate OT FIT 35/700 CS L G2          |
| Certificates               | PDF | ▶ INOTEC Certificate OT FIT 35/700 CS L G2 appendix |
| Certificates               | PDF | ▶ OT EMC 40038482 290922                            |
| Certificates               | PDF | ▶ OT FIT 35 CS L G2 CCC 2023171002005163 071223     |
| Certificates               | PDF | ▶ OT ENEC 40038447 260623                           |
| Certificates               | PDF | ▶ VDE ENEC Certificate 40046756                     |
| Declarations of conformity | PDF | ▶ OT FIT CS L G2 UK DoC 4281119 150222              |
| Declarations of conformity | PDF | ▶ OT FIT CS L G2 CE 3666934 150222                  |
| Declarations of conformity | PDF | ▶ 711957_Declaration of Conformity OT FIT CS L      |
| User instruction           | PDF | ▶ OT FIT 35 55 75 220-240 CS L G2                   |

## 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 |
|---------------|------------------------------------|----------------------------------|---|----------------------|--------------|
| 4052899522534 | OT FIT 35/220...240/700<br>CS L G2 | Shipping carton box<br>20 Pieces | 303 x 159 x 101 mm                      | 4.87 dm <sup>3</sup> | 4419.00 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

## Disclaimer

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