

OT FIT 30/220-240/700 CS S MINI

OPTOTRONIC FIT CS MINI | 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
- 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

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%)

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

Technical data

Electrical data

| | |
|--|----------------------------------|
| Nominal input voltage | 220...240 V |
| Mains frequency | 50/60 Hz |
| Input voltage AC | 198...264 V ¹⁾ |
| Total harmonic distortion | < 10 % ²⁾ |
| Power factor λ | 0.95 ³⁾ |
| Efficiency in full-load | 89 % ⁴⁾ |
| Device power loss | 3.6 W ⁵⁾ |
| 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 | 550/600/650/700 mA ⁶⁾ |
| Output current tolerance | ± 7.5 % |
| Default output current | 700 mA |
| Output ripple current (100 Hz) | < 3 % ⁷⁾ |
| Output PSTLM | ≤ 1 |
| Output SVM | ≤ 0.4 |
| Nominal output power | 17...29 W |
| Maximum output power | 29 W |
| Galvanic isolation | SELV |
| Current set | DipSwitch |

¹⁾ Safety voltage range

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

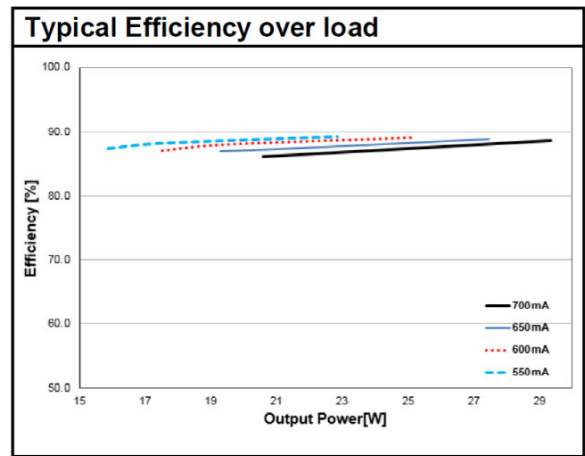
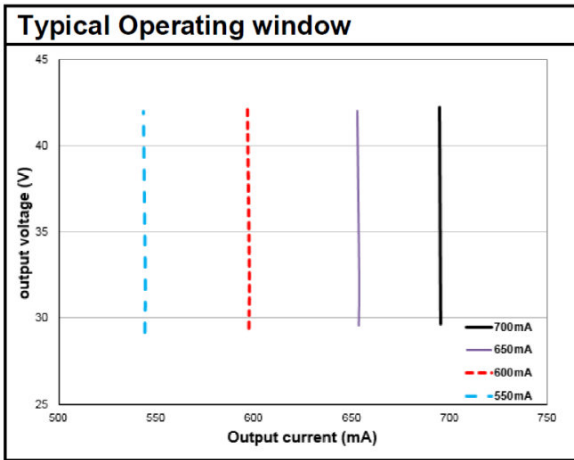
³⁾ Full load at 230 V/50 Hz

⁴⁾ at 230 V, 50 Hz

⁵⁾ At 230 V, Input power 33 W max.

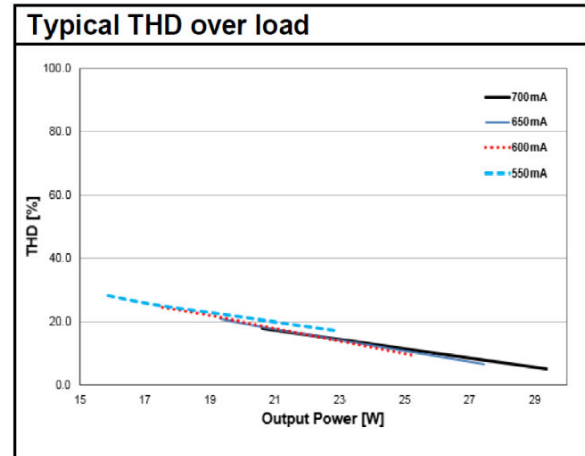
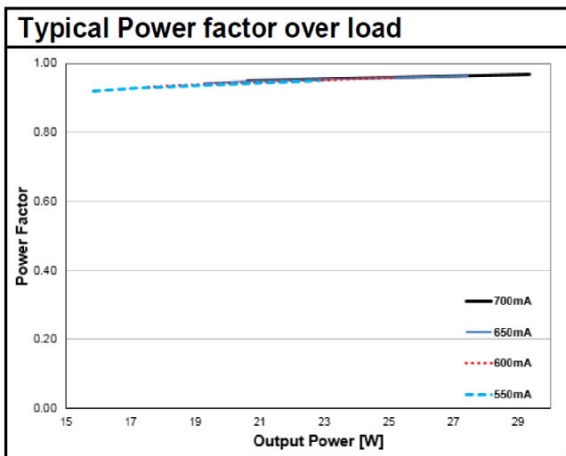
⁶⁾ ± 7.5 %

⁷⁾ Ripple average at 100 Hz



OT FIT 30220-240700 CS S MINI Operating Window

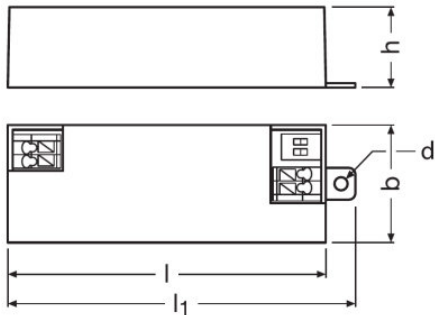
OT FIT 30220-240700 CS S MINI Typical Efficiency vs. Load (230 V 50 Hz)



OT FIT 30220-240700 CS S MINI Typical Power Factor vs. Load

OT FIT 30220-240700 CS S MINI Typical THD Vs Load

Dimensions & weight



| | |
|---|---|
| Product weight | 90.20 g |
| Cable cross-section, input side | 0.5...1.5 / 0.75...1.5 mm ^{2 1)} |
| Cable cross-section, output side | 0.5...1.5 / 0.75...1.5 mm ^{2 1)} |
| 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 |

¹⁾ Solid/ Flexible Leads

Colors & materials

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

Temperatures & operating conditions

| | |
|---|------------------------|
| Ambient temperature range | -20...+60 °C |
| Maximum temperature at tc test point | 90 °C ¹⁾ |
| Max.housing temperature in case of fault | 110 °C |
| Temperature range at storage | -20...80 °C |
| Permitted rel. humidity during operation | 5...85 % ²⁾ |

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

²⁾ Non-condensing

Lifespan

| | |
|---------------------|-----------------------|
| ECG lifetime | 50000 h ¹⁾ |
|---------------------|-----------------------|

¹⁾ At maximum T_c = 90°C / 10% failure rate

Capabilities

| | |
|-----------------|----|
| Dimmable | No |
|-----------------|----|

Product datasheet

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

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

Programming

| | |
|--------------------|-----------|
| 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 |
| Protection class | 1/2 |

Logistical data






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

Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) | |
|---|--|
| Date of Declaration | 14-04-2022 |
| Primary Article Identifier | 4062172013420 |
| 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 | 4012bb03-0060-4884-89b4-274271a3a6df |

Download Data

Product datasheet

| File | |
|---|--|
|  | User instruction OPTOTRONIC LED Power Supply |
|  | Certificates OT FIT CS S MINI ENEC 35 106287 221019 |
|  | Declarations of conformity OT FIT CS MINI UK DoC 4294808 220322 |
|  | Declarations of conformity OT FIT CS MINI CE 3669357 220322 |
|  | CAD data OT FIT MINI CS S - built in step |
|  | CAD data 3-dim OT FIT MINI CS S - built in 3D |

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 (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|------------------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4062172013420 | OT FIT 30/220-240/700 CS S MINI | Shipping carton box 20 | 187 mm x 186 mm x 64 mm | 2.23 dm ³ | 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.

Disclaimer

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