

## OT FIT 30/220-240/700 CS S MINI (NEW)

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 luminaries
- Suitable for luminaires of protection classes I and II
- Suitable for indoor SELV installations

## Technical data

### Electrical data

Nominal input voltage	220...240 V
Nominal output current	550/600/650/700 mA <sup>1)</sup>
Nominal output power	16.5...29 W
Nominal output voltage	30...42 V
Maximum output power	29 W
Mains frequency	50/60 Hz
Input voltage AC	198...264 V <sup>2)</sup>
Default output current	700 mA
Device power loss	3.6 W <sup>3)</sup>
Efficiency in full-load	89 % <sup>4)</sup>
Galvanic isolation primary/secondary	SELV
Inrush current	13.4 A
Max. ECG no. on circuit breaker 10 A (B)	16
Max. ECG no. on circuit breaker 16 A (B)	26
Max. ECG no. on circuit breaker 25 A (B)	not relevant
Output current tolerance	±7.5 %
Output PSTLM	≤1
Output ripple current (100 Hz)	< 3 % <sup>5)</sup>
Output SVM	≤0.4
Power factor λ	0.91C...0.95
Protective conductor current	not relevant
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
Total harmonic distortion	< 10 % <sup>6)</sup>
U-OUT (working voltage)	60 V
Current set	DipSwitch

1) ±7.5%

2) Safety voltage range

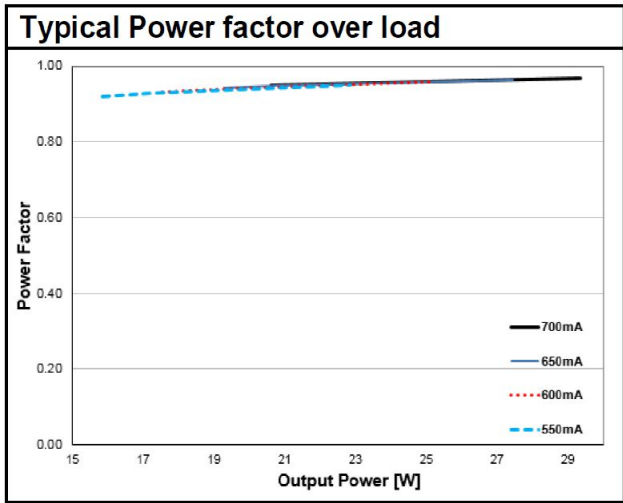
3) At 230 V, Input power 33 W max.

4) at 230 V, 50 Hz

5) Ripple average at 100 Hz

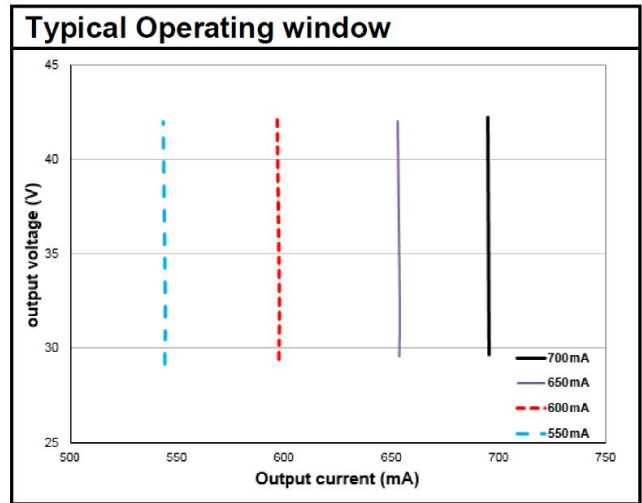
6) At full load, 230 V, 50 Hz / see graphs

## Typical Power Factor v Load



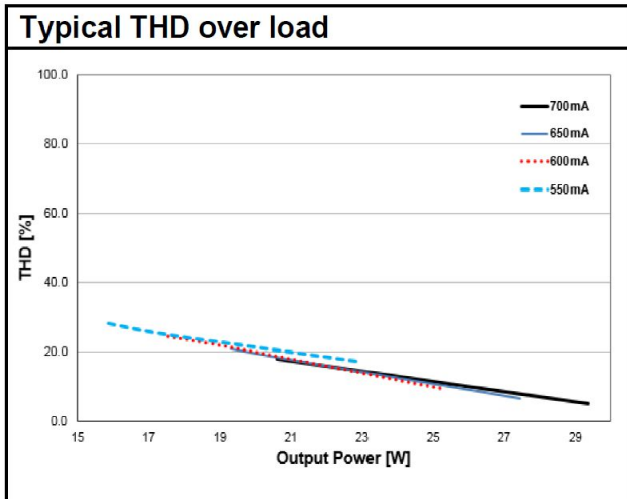
OT FIT 30/220-240/700 CS S MINI Typical Power Factor vs. Load

## Operating Window



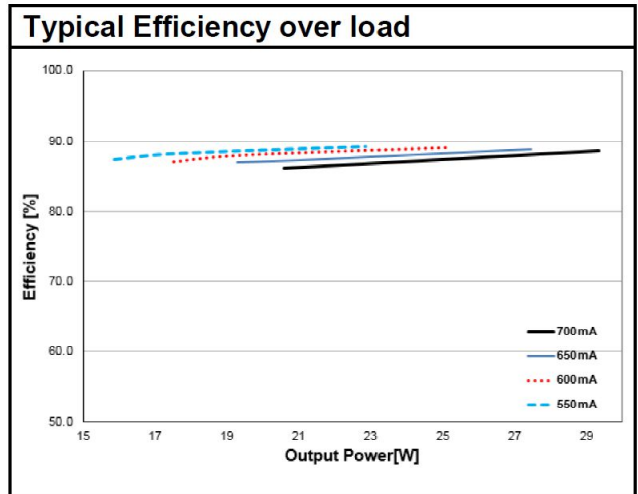
OT FIT 30/220-240/700 CS S MINI Operating Window

## Typical THD v Load



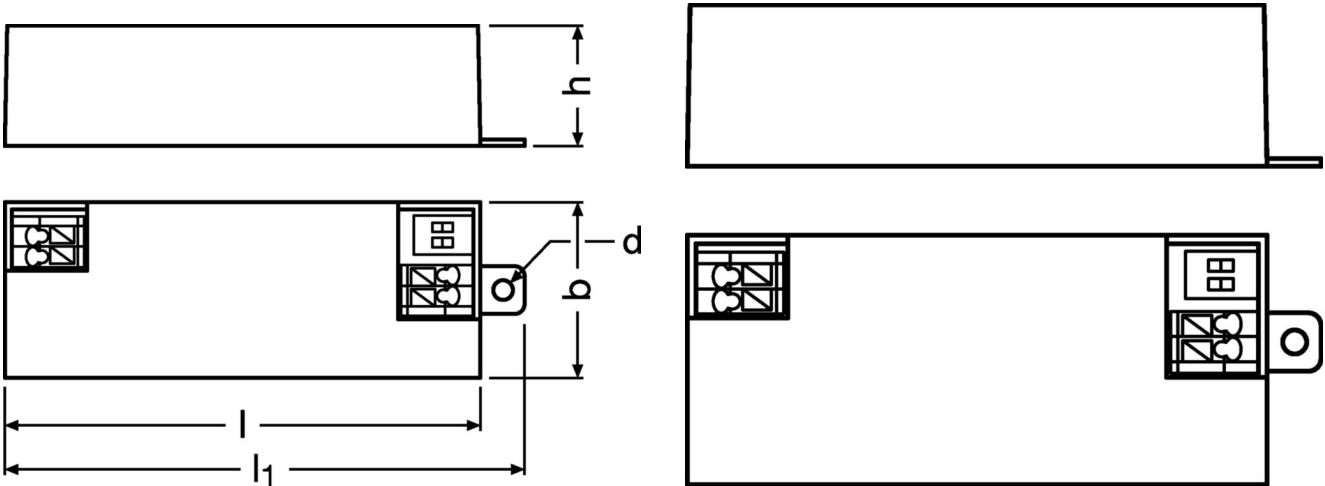
OT FIT 30/220-240/700 CS S MINI Typical THD Vs Load

## Typical Efficiency v Load 230 V 50 Hz



OT FIT 30/220-240/700 CS S MINI Typical Efficiency vs. Load (230 V / 50 Hz)

## Dimensions & weight



<b>Length</b>	87.0 mm
<b>Height</b>	22.0 mm
<b>Width</b>	35.0 mm
<b>Product weight</b>	90.20 g
<b>Cable cross-section, input side</b>	0.5...1.5 mm <sup>2</sup> / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
<b>Cable cross-section, output side</b>	0.5...1.5 mm <sup>2</sup> / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
<b>Wire preparation length, input side</b>	7...8 mm
<b>Wire preparation length, output side</b>	7...8 mm
<b>Mounting hole spacing, length</b>	not relevant mm
<b>Mounting hole spacing, width</b>	not relevant mm

1) Solid/ Flexible Leads

## Colors & materials

<b>Casing material</b>	Plastic
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## Temperatures & operating conditions

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

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

2) Non-condensing

## Lifespan

<b>ECG lifetime</b>	50000 h <sup>1)</sup>
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1) At maximum  $T_c = 90^\circ\text{C}$  / 10% failure rate

## Capabilities

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

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

## Programming

Programming device	DIPswitch
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## Certificates & standards

Type of protection	IP20
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

## Logistical data

Commodity code	85044083900
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## Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Declaration No. in SCIP database	In work
Date of Declaration	29-07-2024
Primary Article Identifier	4062172013420
SCIP_STATUS	In work
SCIP_ID	

## 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.



## Download Data

File		
Certificates	PDF	▶ OT FIT CS MINI ENEC 35 106287 02 090623
CAD data 3-dim	Compressed	▶ OT FIT MINI CS S - built in 3D
CAD data	Compressed	▶ OT FIT MINI CS S - built in step
Mandatory Publications	PDF	▶ OT FIT CS MINI UK DoC 4294808 03 200923
Mandatory Publications	PDF	▶ OT FIT CS MINI CE 3669357 08 160523
User instruction	PDF	▶ UI OT FIT CS S MINI

## 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 Pieces	187 x 186 x 67 mm	2.33 dm <sup>3</sup>	99.00 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.