

OT FIT 30/220...240/700 CS

OPTOTRONIC FIT CS G3 | Compact constant current LED driver – Non dimmable



Product family features

- Lifetime: up to 50,000 h (temperature at max. t_c)
- Cable clamp kit for independent mounting

Product family benefits

- Higher 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

Areas of application

- Suitable for downlights, spotlights and LED panels
- Suitable for luminaires of protection classes I and II

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V ¹⁾
Current set	DipSwitch
Total harmonic distortion	< 10 % ²⁾
Power factor λ	0.98 ³⁾
Efficiency in full-load	89 % ⁴⁾
Device power loss	3.6 W ⁵⁾
Protective conductor current	<0.7 mA
Inrush current	$\leq 5 \text{ A}$ ⁶⁾
Max. ECG no. on circuit breaker 10 A (B)	27
Max. ECG no. on circuit breaker 16 A (B)	44
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	23...42 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 % ⁷⁾
Output PSTLM	≤ 1
Output SVM	≤ 0.4
Nominal output power	11.5...29.4 W
Maximum output power	29.4 W

1) Permitted voltage range

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

3) Full load at 230 V / 50 Hz

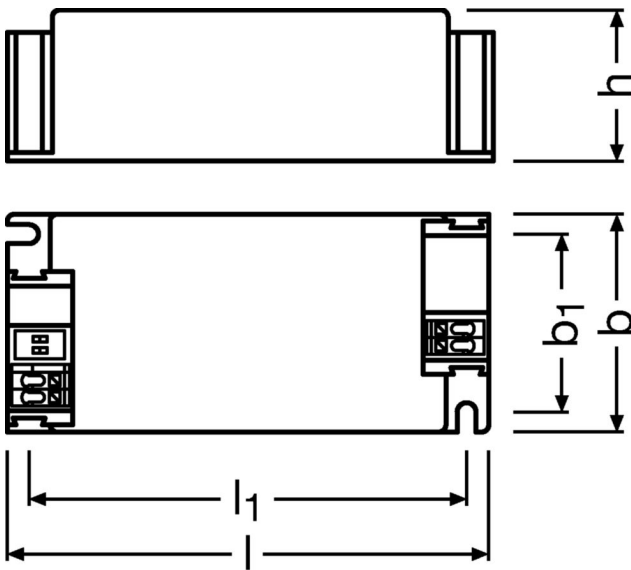
4) at 230 V, 50 Hz

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

6) $t_{\text{width}} = 70 \mu\text{s}$ (measured at 50 % I_{peak})

7) Ripple average at 100 Hz

Dimensions & weight



Length	97.0 mm
Width	43.0 mm
Height	29.5 mm
Mounting hole spacing, length	88.0 mm
Mounting hole spacing, width	34.0 mm
Cable cross-section, input side	0.5...1.5 mm ^{2 1)}
Cable cross-section, output side	0.5...1.5 mm ^{2 1)}
Wire preparation length, input side	7...8 mm
Wire preparation length, output side	7...8 mm
Product weight	90.00 g

1) Solid/ Flexible Leads

Colors & materials

Casing material	Plastic
Product color	White

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	80 °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⁾
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1) At maximum $T_c = 80^\circ\text{C}$ / 10% failure rate

Additional product data

Encapsulated	No
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Capabilities

Dimmable	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
Overheating protection	Automatic reversible
Overload protection	Automatic 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
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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 / Acc. to CISPR 15 / Acc. to IEC 61000-3-2 / Acc. to IEC 61000-3-3 / Acc. to IEC 61547
Type of protection	IP20
Protection class	I,II

Logistical data

Commodity code	85044083900
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	22-03-2024
Primary Article Identifier	4052899617322
Declaration No. in SCIP database	In work

Download Data

File		
Certificates	PDF	▶OT FIT CS ENEC 35 112395 180121
CAD data 3-dim	Compressed	▶OT FIT 20 30 CS CAD3PDF 151020
CAD data	Compressed	▶OT FIT 20 30 CS IGS 151020
CAD data	Compressed	▶OT FIT 20 30 CS STEP 151020
Declarations of conformity	PDF	▶OT FIT CS UK DoC 4290089 150322
Declarations of conformity	PDF	▶OT FIT CS CE 3667905 150322
User instruction	PDF	▶OPTOTRONIC LED Power Supply

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
4052899617322	OT FIT 30/220...240/700 CS	Shipping carton box 20 Pieces	228 x 208 x 78 mm	3.70 dm ³	1906.00 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.

Accessories Optional

Product description	Accessory name	Accessory code
OT FIT 30/220...240/700 CS	OT CABLE CLAMP D-STYLE	▶ 4052899077904
OT FIT 30/220...240/700 CS	OT CABLE CLAMP D-STYLE	▶ 4062172345507
OT FIT 30/220...240/700 CS	OT CABLE CLAMP D-STYLE TL	▶ 4062172349185