

OPTOTRONIC FIT CS G3

Constant Current Compact – Non dimmable



Areas of application

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

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

Product family features

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

Product family datasheet

Technical data

Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Total harmonic distortion	Power factor λ
OT FIT 20/220...240/500 CS	220...240 V	50/60 Hz	198...264 V	< 10 % ¹⁾	0.98
OT FIT 30/220...240/700 CS	220...240 V	50/60 Hz	198...264 V ⁵⁾	< 10 % ¹⁾	0.98 ⁶⁾
OT FIT 40/220...240/1A0 CS	220...240 V	50/60 Hz	198...264 V	< 10 % ¹⁾	0.98

Product description	Efficiency in full-load	Device power loss	Protective conductor current	Inrush current	Max. ECG no. on circuit breaker 10 A (C)
OT FIT 20/220...240/500 CS	88 % ²⁾	3.0 W ³⁾	<0.7 mA	≤ 4 A ⁴⁾	57
OT FIT 30/220...240/700 CS	89 % ²⁾	3.6 W ⁷⁾	<0.7 mA	≤ 5 A ⁸⁾	41
OT FIT 40/220...240/1A0 CS	90 % ²⁾	4.9 W ¹⁰⁾	<0.7 mA	≤ 35 A ¹¹⁾	19

Product description	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 16 A (C)	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)
OT FIT 20/220...240/500 CS	38	60	91	94	2 kV
OT FIT 30/220...240/700 CS	27	44	66	68	2 kV
OT FIT 40/220...240/1A0 CS	11	19	31	29	2 kV

Product description	Surge capability (L-N)	Nominal output voltage	U-OUT (working voltage)	Nominal output current	Output current tolerance
OT FIT 20/220...240/500 CS	1 kV	23...42 V	60 V	250 / 350 / 450 / 500 mA	± 6.5 %
OT FIT 30/220...240/700 CS	1 kV	23...42 V	60 V	500 / 600 / 650 / 700 mA	± 7.5 %
OT FIT 40/220...240/1A0 CS	1 kV	25...42 / 30...42 V ¹²⁾	60 V	800 / 900 / 950 / 1050 mA	± 7.5 %

Product description	Default output current	Output ripple current (100 Hz)	Output PSTLM
OT FIT 20/220...240/500 CS	500 mA	< 5 %	≤ 1
OT FIT 30/220...240/700 CS	700 mA	< 5 % ⁹⁾	≤ 1
OT FIT 40/220...240/1A0 CS	1050 mA	< 5 %	≤ 1

Product description	Output SVM	Nominal output power	Maximum output power	Galvanic isolation
OT FIT 20/220...240/500 CS	≤ 0.4	5.8...21 W	21 W	SELV
OT FIT 30/220...240/700 CS	≤ 0.4	11.5...29.4 W	29.4 W	
OT FIT 40/220...240/1A0 CS	≤ 0.4	20...44.1 W	44.1 W	SELV

Product family datasheet

Product description	Current set	Galvanic isolation primary/secondary
OT FIT 20/220...240/500 CS	DipSwitch	SELV
OT FIT 30/220...240/700 CS	DipSwitch	SELV
OT FIT 40/220...240/1A0 CS	DipSwitch	SELV

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

2) at 230 V, 50 Hz

3) At 230 V, Input power 24 W max.

4) $t_{width} = 50 \mu s$ typical (measured at 50 % I_{peak})

5) Permitted voltage range

6) Full load at 230 V/50 Hz

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

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

9) Ripple average at 100 Hz

10) At 230 V, Input power 49 W max.

11) $t_{width} = 200 \mu s$ (measured at 50 % I_{peak})

12) 30 - 42V @ 1050 mA

Dimensions & weight

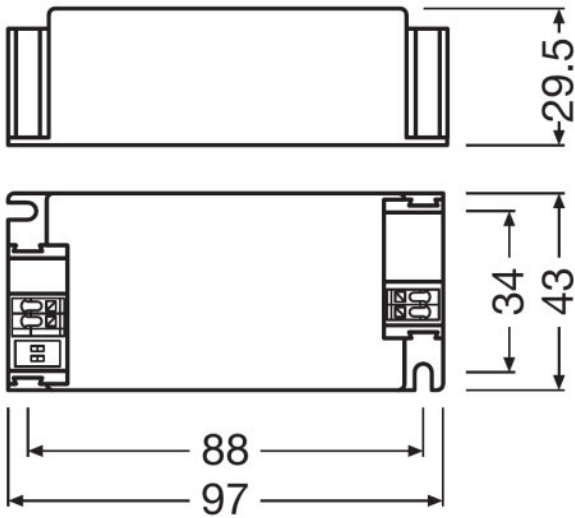
Product description	Mounting hole spacing, length	Mounting hole spacing, width	Product weight	Cable cross-section, input side	Cable cross-section, output side
OT FIT 20/220...240/500 CS	88.0 mm	34.0 mm	85.00 g	0.5...1.5 mm ²	0.5...1.5 mm ²
OT FIT 30/220...240/700 CS	88.0 mm	34.0 mm	90.00 g	0.5...1.5 mm ² 1)	0.5...1.5 mm ² 1)
OT FIT 40/220...240/1A0 CS	88.0 mm	34.0 mm	110.00 g	0.5...1.5 mm ²	0.5...1.5 mm ²

Product description	Wire preparation length, input side	Wire preparation length, output side	Height	Width	Length
OT FIT 20/220...240/500 CS	7...8 mm	7...8 mm	29.5 mm	43.0 mm	97.0 mm
OT FIT 30/220...240/700 CS	7...8 mm	7...8 mm	29.5 mm	43.0 mm	97.0 mm
OT FIT 40/220...240/1A0 CS	7...8 mm	7...8 mm	29.5 mm	43.0 mm	97.0 mm

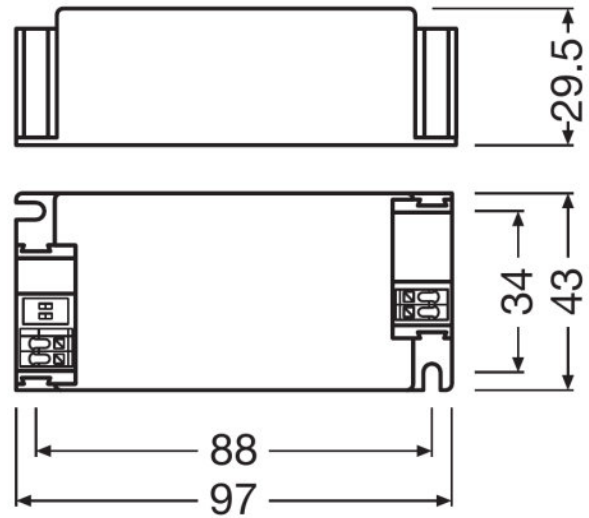
1) Solid/ Flexible Leads

Product family datasheet

Product line drawing



OT FIT 20/220...240/500 CS



OT FIT 30/220...240/700 CS, OT FIT 40/220...240/1A0 CS

Colors & materials

Product description	Casing material
OT FIT 20/220...240/500 CS	Plastic
OT FIT 30/220...240/700 CS	Plastic
OT FIT 40/220...240/1A0 CS	Plastic

Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Temperature range at storage
OT FIT 20/220...240/500 CS	-20...+50 °C	75 °C	110 °C	-20...80 °C
OT FIT 30/220...240/700 CS	-20...+50 °C	80 °C ²⁾	110 °C	-20...80 °C
OT FIT 40/220...240/1A0 CS	-20...+50 °C	80 °C	110 °C	-20...80 °C

Product description	Permitted rel. humidity during operation
OT FIT 20/220...240/500 CS	5...85 % ¹⁾
OT FIT 30/220...240/700 CS	5...85 % ¹⁾
OT FIT 40/220...240/1A0 CS	5...85 % ¹⁾

¹⁾ Non-condensing

²⁾ Measured on tc point indicated on the product label.

Product family datasheet

Lifespan

Product description	ECG lifetime
OT FIT 20/220...240/500 CS	50000 h ¹⁾
OT FIT 30/220...240/700 CS	50000 h ²⁾
OT FIT 40/220...240/1A0 CS	50000 h ²⁾

¹⁾ At maximum T_c = 75°C / 10% failure rate

²⁾ At maximum T_c = 80°C / 10% failure rate

Additional product data

Product description	Predecessor EAN	Encapsulated
OT FIT 20/220...240/500 CS	4052899435612	
OT FIT 30/220...240/700 CS	4052899435636	No
OT FIT 40/220...240/1A0 CS	4052899435650	

Capabilities

Product description	Dimmable	Overheating protection	Overload protection
OT FIT 20/220...240/500 CS	No	Automatic reversible	Automatic reversible
OT FIT 30/220...240/700 CS	No	Automatic reversible	Automatic reversible
OT FIT 40/220...240/1A0 CS	No	Automatic reversible	Automatic reversible

Product description	Short-circuit protection	No-load proof	Intended for no-load operation	Max. cable length to lamp/LED module
OT FIT 20/220...240/500 CS	Automatic reversible	Yes	No	2.0 m ¹⁾
OT FIT 30/220...240/700 CS	Automatic reversible	Yes	No	2.0 m ¹⁾
OT FIT 40/220...240/1A0 CS	Automatic reversible	Yes	No	2.0 m ¹⁾

Product description	Suitable for fixtures with prot. class	Type of connection, input side	Type of connection, output side
OT FIT 20/220...240/500 CS	I / II	Push terminal	Push terminal
OT FIT 30/220...240/700 CS	I / II	Push terminal	Push terminal
OT FIT 40/220...240/1A0 CS	I / II	Push terminal	Push terminal

Product description	Detection angle (Light sensor)	Control interface	Suitable for through-wiring
OT FIT 20/220...240/500 CS	-	-	No
OT FIT 30/220...240/700 CS	-	-	No
OT FIT 40/220...240/1A0 CS	-	-	No

Product description	Number of channels
OT FIT 20/220...240/500 CS	1
OT FIT 30/220...240/700 CS	1
OT FIT 40/220...240/1A0 CS	1

Product family datasheet

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

Programming

Product description	Programming device
OT FIT 20/220...240/500 CS	DIPswitch
OT FIT 30/220...240/700 CS	DIPswitch
OT FIT 40/220...240/1A0 CS	DIPswitch

Certificates & standards

Product description	Approval marks – approval	Standards	Type of protection	Protection class
OT FIT 20/220...240/500 CS	CCC / CE / RCM / ENEC 05	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	IP20	I,II
OT FIT 30/220...240/700 CS	CCC / CE / RCM / ENEC 05	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	IP20	I,II
OT FIT 40/220...240/1A0 CS	CCC / CE / RCM / ENEC 05	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	IP20	I,II

Logistical data

Product description	Commodity code
OT FIT 20/220...240/500 CS	850440839000
OT FIT 30/220...240/700 CS	850440839000
OT FIT 40/220...240/1A0 CS	850440839000

Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
OT FIT 20/220...240/500 CS	19-05-2023	4052899617315	Lead
OT FIT 30/220...240/700 CS	05-05-2023	4052899617322	Lead
OT FIT 40/220...240/1A0 CS	26-05-2023	4052899617339	Lead

Product family datasheet

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OT FIT 20/220...240/500 CS	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	f1c65e9d-a3eb-4d52-bda8-1102fd443a71
OT FIT 30/220...240/700 CS	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	65206567-378b-4e62-9d3c-6e39214c91a4
OT FIT 40/220...240/1A0 CS	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	06ee480d-1593-42d1-9ca2-8009fd63d4df








Application advice

For more detailed application information and graphics please see product datasheet.

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File	
	User instruction OPTOTRONIC LED Power Supply
	Certificates OT FIT CS ENEC 35 112395 180121
	Declarations of conformity OT FIT CS UK DoC 4290089 150322
	Declarations of conformity OT FIT CS CE 3667905 150322
	CAD data OT FIT 20 30 CS IGS 151020
	CAD data OT FIT 20 30 CS STEP 151020
	CAD data 3-dim OT FIT 20 30 CS CAD3PDF 151020
	CAD data OT FIT 40 CS IGS 151020
	CAD data OT FIT 40 CS STEP 151020

Product family datasheet



CAD data 3-dim
OT FIT 40 CS CAD3PDF 151020

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
4052899617315	OT FIT 20/220...240/500 CS	Shipping carton box 20	228 mm x 208 mm x 78 mm	3.70 dm ³	1903.00 g
4052899617322	OT FIT 30/220...240/700 CS	Shipping carton box 20	228 mm x 208 mm x 78 mm	3.70 dm ³	1906.00 g
4052899617339	OT FIT 40/220...240/1A0 CS	Shipping carton box 20	228 mm x 208 mm x 78 mm	3.70 dm ³	2403.00 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.

Accessories Optional

Product description	Accessory name	Accessory code
OT FIT 20/220...240/500 CS	OT CABLE CLAMP D-STYLE	▶ 4062172345507
OT FIT 20/220...240/500 CS	OT CABLE CLAMP D-STYLE TL	▶ 4062172349185
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
OT FIT 40/220...240/1A0 CS	OT CABLE CLAMP D-STYLE	▶ 4062172345507
OT FIT 40/220...240/1A0 CS	OT CABLE CLAMP D-STYLE TL	▶ 4062172349185

Product family datasheet

Disclaimer

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