

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

Product family datasheet

Technical data

Product description	Electrical data					
	Nominal input voltage	Mains frequency	Input voltage AC	Total harmonic distortion	Power factor λ	Efficiency in full-load
OT FIT 8/220...240/180 CS S MINI	220...240 V	50/60 Hz	198...264 V ¹⁾	< 15 % ²⁾	0.95 ³⁾	86 % ⁴⁾
OT FIT 8/220...240/180 CS I MINI	220...240 V	50/60 Hz	198...264 V ¹⁾	< 15 % ²⁾	0.95 ³⁾	86 % ⁴⁾
OT FIT 15/220-240/350 CS S MINI	220...240 V	50/60 Hz	198...264 V ¹⁾	< 10 % ²⁾	0.95 ³⁾	88 % ⁴⁾
OT FIT 20/220-240/500 CS S MINI	220...240 V	50/60 Hz	198...264 V ¹⁾	< 10 % ²⁾	0.95 ³⁾	89 % ⁴⁾
OT FIT 30/220-240/700 CS S MINI	220...240 V	50/60 Hz	198...264 V ¹⁾	< 10 % ²⁾	0.95 ³⁾	89 % ⁴⁾
OT FIT 38/220-240/900 CS S MINI	220...240 V	50/60 Hz	198...264 V ¹⁾	< 10 % ²⁾	0.95 ³⁾	90 % ⁴⁾

Product description	Device power loss	Protective conductor current	Inrush current	Max. ECG no. on circuit breaker 10 A (C)	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)
OT FIT 8/220...240/180 CS S MINI	1.2 W ⁵⁾	<0.7 mA	< 16 A	62	36	60
OT FIT 8/220...240/180 CS I MINI	1.2 W ⁵⁾	<0.7 mA	< 16 A	62	36	60
OT FIT 15/220-240/350 CS S MINI	2.1 W ¹⁶⁾		16.5 A	58	34	56
OT FIT 20/220-240/500 CS S MINI	2.6 W ¹⁷⁾		16.5 A	58	34	56
OT FIT 30/220-240/700 CS S MINI	3.6 W ¹⁹⁾		13.4 A	26	16	26
OT FIT 38/220-240/900 CS S MINI	4.2 W ²¹⁾		13.4 A	26	16	26

Product description	Max. ECG no. on circuit breaker 16 A (C)	Surge capability (L/N-Ground)	Surge capability (L-N)	Nominal output voltage	U-OUT (working voltage)
OT FIT 8/220...240/180 CS S MINI	100	2 kV	1 kV	30...42 V	60 V
OT FIT 8/220...240/180 CS I MINI	100	2 kV	1 kV	30...42 V	60 V
OT FIT 15/220-240/350 CS S MINI	94	2 kV	1 kV	30...42 V	60 V
OT FIT 20/220-240/500 CS S MINI	94	2 kV	1 kV	30...42 V	60 V
OT FIT 30/220-240/700 CS S MINI	43	2 kV	1 kV	30...42 V	60 V
OT FIT 38/220-240/900 CS S MINI	43	2 kV	1 kV	30...42 V	60 V

Product description	Nominal output current	Output current tolerance	Default output current	Output ripple current (100 Hz)	Output PSTLM
OT FIT 8/220...240/180 CS S MINI	90/120/150/180 mA ⁶⁾	± 7.5 % ⁷⁾	180 mA	< 3 % ⁸⁾	≤ 1
OT FIT 8/220...240/180 CS I MINI	90/120/150/180 mA ⁶⁾	± 7.5 % ⁷⁾	180 mA	< 3 % ⁸⁾	≤ 1
OT FIT 15/220-240/350 CS S MINI	225/250/325/350 mA ⁶⁾	± 7.5 %	350 mA	< 3 % ⁸⁾	≤ 1
OT FIT 20/220-240/500 CS S MINI	400/450/475/500 mA ⁶⁾	± 7.5 %	500 mA	< 3 % ⁸⁾	≤ 1

Product family datasheet

Product description	Nominal output current	Output current tolerance	Default output current	Output ripple current (100 Hz)	Output PSTLM
OT FIT 30/220-240/700 CS S MINI	550/600/650/700 mA ⁶⁾	±7.5 %	700 mA	< 3 % ⁸⁾	≤1
OT FIT 38/220-240/900 CS S MINI	800/850/875/900 mA ⁶⁾	±7.5 %	900 mA	< 3 % ⁸⁾	≤1

Product description	Output SVM	Nominal output power	Maximum output power	Galvanic isolation
OT FIT 8/220...240/180 CS S MINI	≤0.4	2.7...7.6 W	7.6 W	SELV
OT FIT 8/220...240/180 CS I MINI	≤0.4	2.7...7.6 W	7.6 W	SELV
OT FIT 15/220-240/350 CS S MINI	≤0.4	6.7...14.7 W	14.7 W	SELV
OT FIT 20/220-240/500 CS S MINI	≤0.4	12...21 W	21 W	SELV
OT FIT 30/220-240/700 CS S MINI	≤0.4	17...29 W	29 W	SELV
OT FIT 38/220-240/900 CS S MINI	≤0.4	27...37.8 W	37.5 W	SELV

Product description	Current set	Dimensions & weight			
		Product weight	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side
OT FIT 8/220...240/180 CS S MINI	DipSwitch	40.00 g	0.5...1.5 / 0.75...1.5 mm ² ⁹⁾	0.5...1.5 / 0.75...1.5 mm ² ⁹⁾	7...8 mm
OT FIT 8/220...240/180 CS I MINI	DipSwitch	50.00 g	0.5...1.5 / 0.75...1.5 mm ² ⁹⁾	0.5...1.5 / 0.75...1.5 mm ² ⁹⁾	7...8 mm
OT FIT 15/220-240/350 CS S MINI	DipSwitch	54.00 g	0.5...1.5 / 0.75...1.5 mm ² ⁹⁾	0.5...1.5 / 0.75...1.5 mm ² ⁹⁾	7...8 mm
OT FIT 20/220-240/500 CS S MINI	DipSwitch	54.00 g	0.5...1.5 / 0.75...1.5 mm ² ⁹⁾	0.5...1.5 / 0.75...1.5 mm ² ⁹⁾	7...8 mm
OT FIT 30/220-240/700 CS S MINI	DipSwitch	90.20 g	0.5...1.5 / 0.75...1.5 mm ² ⁹⁾	0.5...1.5 / 0.75...1.5 mm ² ⁹⁾	7...8 mm
OT FIT 38/220-240/900 CS S MINI	DipSwitch	90.20 g	0.5...1.5 / 0.75...1.5 mm ² ⁹⁾	0.5...1.5 / 0.75...1.5 mm ² ⁹⁾	7...8 mm

Product description	Wire preparation length, output side	Length	Width	Height	Mounting hole spacing, length	Mounting hole spacing, width
OT FIT 8/220...240/180 CS S MINI	7...8 mm	87.0 mm	30.0 mm	20.0 mm		
OT FIT 8/220...240/180 CS I MINI	7...8 mm	104.0 mm	30.0 mm	26.0 mm	89.4 mm	22.0 mm
OT FIT 15/220-240/350 CS S MINI	7...8 mm	87.0 mm	35.0 mm	22.0 mm		
OT FIT 20/220-240/500 CS S MINI	7...8 mm	87.0 mm	35.0 mm	22.0 mm		
OT FIT 30/220-240/700 CS S MINI	7...8 mm	87.0 mm	35.0 mm	22.0 mm		
OT FIT 38/220-240/900 CS S MINI	7...8 mm	87.0 mm	35.0 mm	22.0 mm		

Product family datasheet

Product description	Colors & materials	Temperatures & operating conditions			
	Casing material	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Temperature range at storage
OT FIT 8/220...240/180 CS S MINI	Plastic	-20...+55 °C	75 °C ¹⁰⁾	110 °C	-20...80 °C
OT FIT 8/220...240/180 CS I MINI	Plastic	-20...+55 °C	70 °C ¹⁰⁾	110 °C	-20...80 °C
OT FIT 15/220-240/350 CS S MINI	Plastic	-20...+55 °C	75 °C ¹⁰⁾	110 °C	-20...80 °C
OT FIT 20/220-240/500 CS S MINI	Plastic	-20...+55 °C	80 °C ¹⁰⁾	110 °C	-20...80 °C
OT FIT 30/220-240/700 CS S MINI	Plastic	-20...+60 °C	90 °C ¹⁰⁾	110 °C	-20...80 °C
OT FIT 38/220-240/900 CS S MINI	Plastic	-20...+55/-20...+60 °C ²²⁾	95 °C ¹⁰⁾	110 °C	-20...80 °C

Product description	Permitted rel. humidity during operation	Lifespan	Capabilities		
		ECG lifetime	Dimmable	Overheating protection	Overload protection
OT FIT 8/220...240/180 CS S MINI	5...85 % ¹¹⁾	50000 h ¹²⁾	No	Automatic reversible	Automatic reversible
OT FIT 8/220...240/180 CS I MINI	5...85 % ¹⁴⁾	50000 h ¹⁵⁾	No	Automatic reversible	Automatic reversible
OT FIT 15/220-240/350 CS S MINI	5...85 % ¹¹⁾	50000 h ¹²⁾	No	Automatic reversible	Automatic reversible
OT FIT 20/220-240/500 CS S MINI	5...85 % ¹¹⁾	50000 h ¹⁸⁾	No	Automatic reversible	Automatic reversible
OT FIT 30/220-240/700 CS S MINI	5...85 % ¹¹⁾	50000 h ²⁰⁾	No	Automatic reversible	Automatic reversible
OT FIT 38/220-240/900 CS S MINI	5...85 % ¹¹⁾	35000 / 50000 h ²³⁾	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 8/220...240/180 CS S MINI	Automatic reversible	Yes	No	2.0 m ¹³⁾
OT FIT 8/220...240/180 CS I MINI	Automatic reversible	Yes	No	2.0 m ¹³⁾
OT FIT 15/220-240/350 CS S MINI	Automatic reversible	Yes	No	2.0 m ¹³⁾
OT FIT 20/220-240/500 CS S MINI	Automatic reversible	Yes	No	2.0 m ¹³⁾
OT FIT 30/220-240/700 CS S MINI	Automatic reversible	Yes	No	2.0 m ¹³⁾
OT FIT 38/220-240/900 CS S MINI	Automatic reversible	Yes	No	2.0 m ¹³⁾

Product description	Suitable for fixtures with prot. class	Type of connection, input side	Type of connection, output side	Suitable for through-wiring
OT FIT 8/220...240/180 CS S MINI	I / II	Push terminal	Push terminal	No
OT FIT 8/220...240/180 CS I MINI	I / II	Push terminal	Push terminal	No
OT FIT 15/220-240/350 CS S MINI	I / II	Push terminal	Push terminal	No
OT FIT 20/220-240/500 CS S MINI	I / II	Push terminal	Push terminal	No
OT FIT 30/220-240/700 CS S MINI	I / II	Push terminal	Push terminal	No

Product family datasheet

Product description	Suitable for fixtures with prot. class	Type of connection, input side	Type of connection, output side	Suitable for through-wiring
OT FIT 38/220-240/900 CS S MINI	I / II	Push terminal	Push terminal	No

Product description	Number of channels	Programming	Certificates & standards	
		Programming device	Approval marks – approval	Standards
OT FIT 8/220...240/180 CS S MINI	1	DIPswitch	ENEC 05 / CCC / CE / RCM	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
OT FIT 8/220...240/180 CS I MINI	1	DIPswitch	ENEC 05 / CCC / CE / RCM	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
OT FIT 15/220-240/350 CS S MINI	1	DIPswitch	ENEC 05 / CCC / CE / RCM	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
OT FIT 20/220-240/500 CS S MINI	1	DIPswitch	ENEC 05 / CCC / CE / RCM	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
OT FIT 30/220-240/700 CS S MINI	1	DIPswitch	ENEC 05 / CCC / CE / RCM	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
OT FIT 38/220-240/900 CS S MINI	1	DIPswitch	ENEC 05 / CCC / CE / RCM	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

Product family datasheet

Product description	Type of protection	Protection class	Logistical data	Environmental information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)
			Commodity code	Date of Declaration
OT FIT 8/220...240/180 CS S MINI	IP20	1/2	850440829000	14-04-2022
OT FIT 8/220...240/180 CS I MINI	IP20	1/2	850440829000	14-04-2022
OT FIT 15/220-240/350 CS S MINI	IP20	1/2	850440829000	14-04-2022
OT FIT 20/220-240/500 CS S MINI	IP20	1/2	850440829000	14-04-2022
OT FIT 30/220-240/700 CS S MINI	IP20	1/2	850440829000	14-04-2022
OT FIT 38/220-240/900 CS S MINI	IP20	1/2	850440829000	14-04-2022

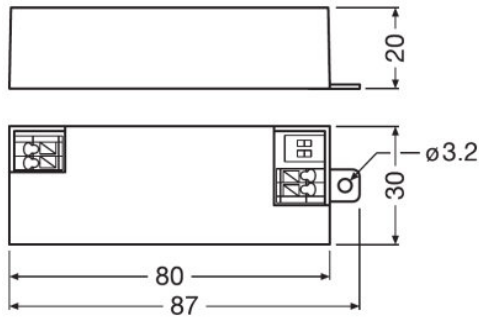
Product description	Primary Article Identifier	Candidate List Substance 1	CAS No. of substance 1	Safe Use Instruction
OT FIT 8/220...240/180 CS S MINI	4052899587922	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
OT FIT 8/220...240/180 CS I MINI	4052899587946	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
OT FIT 15/220-240/350 CS S MINI	4062172013406	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
OT FIT 20/220-240/500 CS S MINI	4052899587960	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
OT FIT 30/220-240/700 CS S MINI	4062172013420	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
OT FIT 38/220-240/900 CS S MINI	4052899587984	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.

Product family datasheet

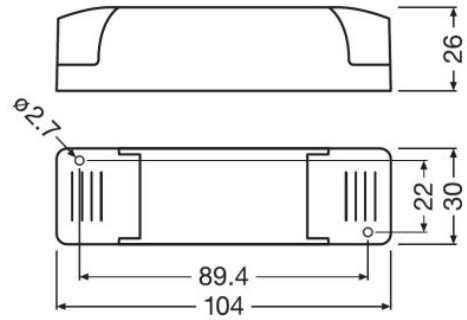
Product description	Declaration No. in SCIP database
OT FIT 8/220...240/180 CS S MINI	050e4e2d-0780-4c3c-aabf-45410ba994e3
OT FIT 8/220...240/180 CS I MINI	ede39159-cea8-45f9-8d79-7af7e538c468
OT FIT 15/220-240/350 CS S MINI	24fe6f39-656d-464b-b0c1-6eca36299d74
OT FIT 20/220-240/500 CS S MINI	c901d590-ecde-487b-90c7-2b549c9c31bd
OT FIT 30/220-240/700 CS S MINI	4012bb03-0060-4884-89b4-274271a3a6df
OT FIT 38/220-240/900 CS S MINI	c49b5cc7-114e-4955-848a-427dff02d9bf

- 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 8.8 W max.
- 6) $\pm 7.5\%$
- 7) $I_{out} = 90\text{mA} < \pm 10\%$
- 8) Ripple average at 100 Hz
- 9) Solid/ Flexible Leads
- 10) Measured on tc point indicated on the product label.
- 11) Non-condensing
- 12) At maximum $T_c = 75^\circ\text{C}$ / 10% failure rate
- 13) Output wires must be routed as close as possible to each other
- 14) Maximum 56 days/year at 85 %
- 15) At maximum $T_c = 70^\circ\text{C}$ / 10% failure rate
- 16) At 230 V, Input power 16.8 W max.
- 17) At 230 V, Input power 23.6 W max.
- 18) At maximum $T_c = 80^\circ\text{C}$ / 10% failure rate
- 19) At 230 V, Input power 33 W max.
- 20) At maximum $T_c = 90^\circ\text{C}$ / 10% failure rate
- 21) At 230 V, Input power 42 W max.
- 22) At output currents 850/875/900 mA/At output currents 800 mA
- 23) At maximum $T_c = 95^\circ\text{C}$ / 10% failure rate

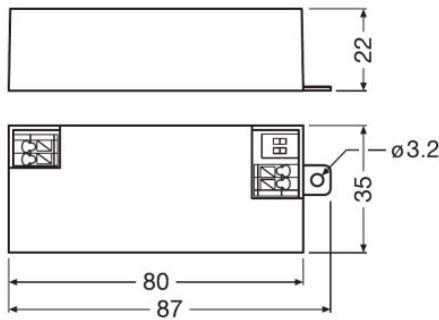
Product family datasheet



Line Drawing of OT FIT 8220-240180 CS S MINI



Line Drawing of OT FIT 8220-240180 CS I MINI



Line Drawing of OT FIT 15203538 CS I MINI



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
	Declarations of conformity OT FIT CS MINI UK DoC 4294808 220322

Product family datasheet

	Declarations of conformity OT FIT CS MINI CE 3669357 220322
	CAD data STEP file OT FIT Mini 8W
	CAD data PDF 3D CAD drawing OT FIT MINI 8W
	User instruction OPTOTRONIC LED Power Supply
	CAD data STEP file OT FIT MINI 8W
	CAD data PDF 3D CAD drawing OT FIT MINI 8W
	CAD data PDF 3D CAD drawing open OT FIT MINI 8W
	Certificates OT FIT CS S MINI ENEC 35 106287 221019
	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
4052899587922	OT FIT 8/220...240/180 CS S MINI	Shipping carton box 20	186 mm x 162 mm x 63 mm	1.90 dm ³	947.00 g
4052899587946	OT FIT 8/220...240/180 CS I MINI	Shipping carton box 20	220 mm x 162 mm x 72 mm	2.57 dm ³	1085.00 g
4062172013406	OT FIT 15/220-240/350 CS S MINI	Shipping carton box 20	187 mm x 186 mm x 67 mm	2.33 dm ³	1256.00 g

Product family datasheet

Logistical Data

4052899587960	OT FIT 20/220-240/500 CS S MINI	Shipping carton box 20	187 mm x 186 mm x 64 mm	2.23 dm ³	1256.00 g
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
4052899587984	OT FIT 38/220-240/900 CS S MINI	Shipping carton box 20	187 mm x 186 mm x 67 mm	2.33 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.