OT FIT 150/220...240/1A0 D NFC IND L

OPTOTRONIC FIT D NFC IND L | Linear / Area Constant Current – Non dimmable



Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 300 W
- Supply voltage: 220...240 V
- Available with output current range: up to 1,600 mA
- Constant Lumen Output (CLO)
- Non-isolated drivers

Product family benefits

- Flexible and future-proof current setting via NFC and LT2
- Lifetime: up to 100,000 h (temperature at T_c = 75 °C, max. 10 % failure rate)
- Wide operating temperature range: -40...+65 °C
- High quality of light thanks to <1% output ripple current
- High surge protection: up to 4 kV (L-N) / 4 kV (L/N-PE)
- Very high efficiency (up to 96%)
- Integrated inrush current limiter
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

Areas of application

- Linear lighting solutions for industry, storage areas and retail applications
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for installation in emergency lighting systems according to EN 60598-2-22
- Suitable for luminaires of protection class I

© 2024, Inventronics GmbH. All rights reserved. Inventronics is a licensee of the OSRAM brand. OSRAM is a trademark of ams OSRAM.

Technical data

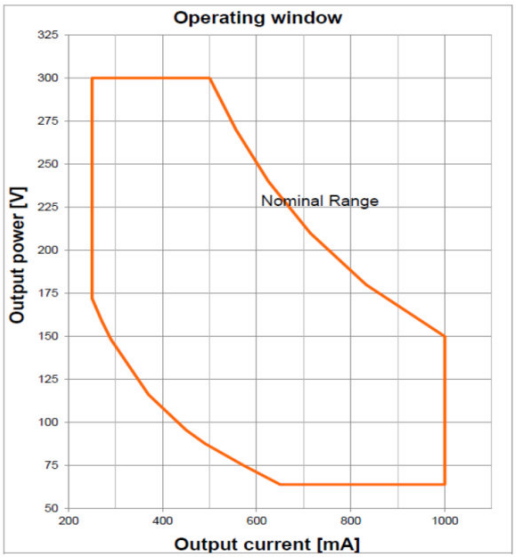
Electrical data

Nominal input voltage	220…240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198…264 V
Input voltage DC	176…276 V
Current set	LEDset / NFC
Power factor λ	0.85C…0.99
Efficiency in full-load	95.5 % [1)]
Device power loss	11 W
Inrush current	5 A
Max. ECG no. on circuit breaker 10 A (B)	14
Max. ECG no. on circuit breaker 10 A (C)	-
Max. ECG no. on circuit breaker 16 A (B)	22
Max. ECG no. on circuit breaker 16 A (C)	-
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	4 kV
Surge capability (L-N)	4 kV
Nominal output voltage	64…300 V
Nominal output current	250…1000 mA
Default output current	125 mA [2)]
Output ripple current (100 Hz)	< 1 %
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	43…150 W
Maximum output power	150 W
Galvanic isolation	Non isolated
U-OUT (working voltage)	< 340 V
Total harmonic distortion	7 %
Output current tolerance	±3 %
Output current LEDset open	125 mA
Output current LEDset shorted	250 mA

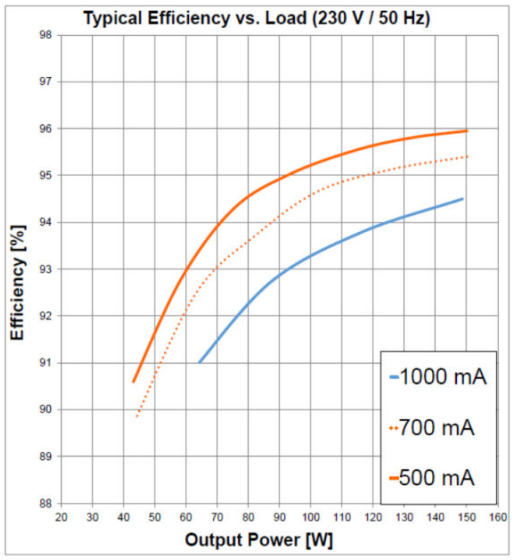
1) at 230 V, 50 Hz

2) LEDset deactivated

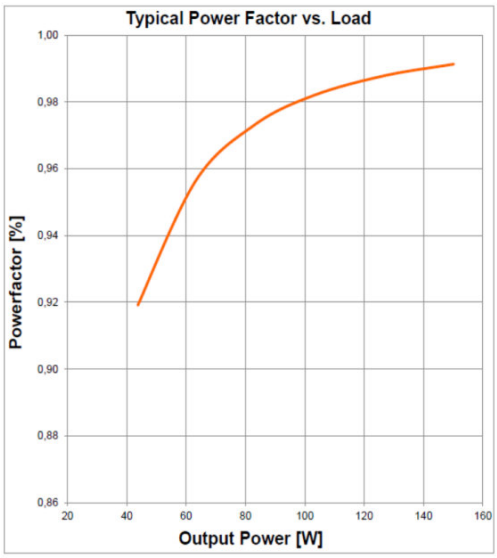
© 2024, Inventronics GmbH. All rights reserved. Inventronics is a licensee of the OSRAM brand. OSRAM is a trademark of ams OSRAM.



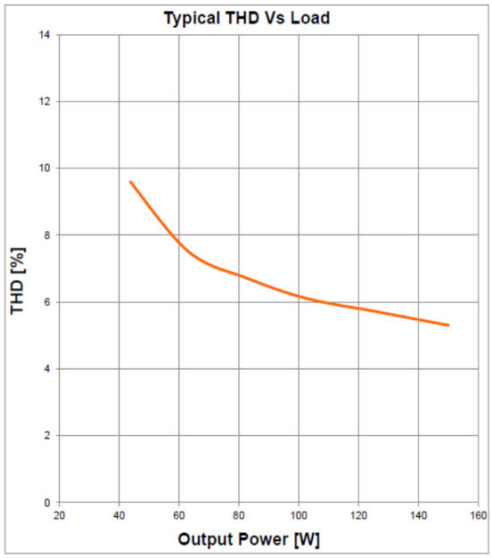
OT FIT 150220-2401A0 D NFC IND Operating Window



OT FIT 150220-2401A0 D NFC IND Typical Efficiency vs. Load (230 V 50 Hz)

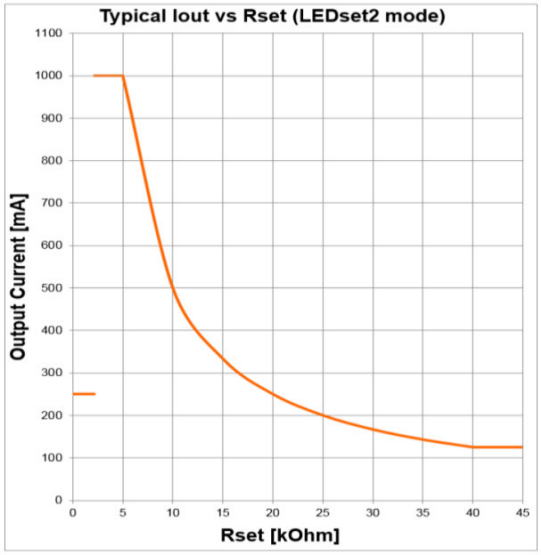


OT FIT 150220-2401A0 D NFC IND Typical Power Factor vs. Load



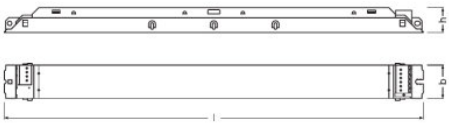
OT FIT 150220-2401A0 D NFC IND Typical THD Vs Load

© 2024, Inventronics GmbH. All rights reserved. Inventronics is a licensee of the OSRAM brand. OSRAM is a trademark of ams OSRAM.



OT FIT 150220-2401A0 D NFC IND Typical Iout vs Rset (LEDset2 mode)

Dimensions & weight



Mounting hole spacing, length	350.0 mm
Product weight	260.00 g
Cable cross-section, input side	0.5…1.5 mm²
Cable cross-section, output side	0.5…1.5 mm²
Wire preparation length, input side	8.0…9.0 mm
Wire preparation length, output side	8.0…9.0 mm
Length	360.0 mm
Width	30.0 mm
Height	21.0 mm

© 2024, Inventronics GmbH. All rights reserved. Inventronics is a licensee of the OSRAM brand. OSRAM is a trademark of ams OSRAM.

Colors & materials

Casing material	Metal

Temperatures & operating conditions

Ambient temperature range	-40…+70 °C
Maximum temperature at tc test point	85 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40…+85 °C
Permitted rel. humidity during operation	5…85 % [1)]

[1)] Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 / 100000 h [1)]

[1)] At maximum T_c = 85°C / 10% failure rate / At T_{case} = 75°C at T_c point / 10% failure rate

Additional product data

Encapsulated	No

Capabilities

Dimmable	No
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	5.0 m [1)]
Suitable for fixtures with prot. class	I
Suitable for emergency lighting	Yes
Constant lumen function	Programmable
Number of channels	1

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

Programming

Box programming	Yes
Tuner4TRONIC	Yes
Tuner4TRONIC Field App	Yes
Programming device	NFC / LEDset

Certificates & standards

© 2024, Inventronics GmbH. All rights reserved. Inventronics is a licensee of the OSRAM brand. OSRAM is a trademark of ams OSRAM.

Approval marks – approval	CE / EL / VDE-ENEC / EAC / CCC / BIS / RCM
Standards	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 62384/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 61547
Type of protection	IP20

Logistical data

Commodity code	85044083900

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	28-04-2023
Primary Article Identifier	4052899990142
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	c1eeaa88-ec2e-4643-8df9-451d68f91219

Download Data

	File
	User instruction OPTOTRONIC LED Power Supply
	Certificates OT EMC 40050085 200220
	Certificates OT ENEC 40038085 010322
	Certificates OT EMC 40044675 031022
	Declarations of conformity OT FIT D NFC IND L UK DoC 4281285 220322
	Declarations of conformity OT FIT D NFC IND L CE 3695761 230322
	Declarations of conformity INOTEC-Conformity declaration AM15161 OT FIT 150 220-240 1A0 D NFC IND L (EN)
	Declarations of conformity EATON(CEAG) Conformity declaration AM15161 OT FIT 150 220-240 1A0 D NFC IND L (EN)
	CAD data OT FIT D NFC IND L IGS 281119
	CAD data OT FIT D NFC IND L STEP 281119

© 2024, Inventronics GmbH. All rights reserved. Inventronics is a licensee of the OSRAM brand. OSRAM is a trademark of ams OSRAM.

	CAD Data 2-dim OT FIT D NFC IND L CAD2PDF 281119
	CAD data 3-dim OT FIT D NFC IND L CAD3PDF 281119

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
4052899990142	OT FIT 150/220...240/1A0 D NFC IND L	Shipping carton box 20	385 mm x 160 mm x 100 mm	6.16 dm^3	5374.00 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.

© 2024, Inventronics GmbH. All rights reserved. Inventronics is a licensee of the OSRAM brand. OSRAM is a trademark of ams OSRAM.