

OT FIT 150/220-240/1A0 D NFC IND L (NEW)

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 $T_c = 75^\circ\text{C}$, max. 10 % failure rate)
- Wide operating temperature range: $-40\dots+65^\circ\text{C}$
- 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

Technical data

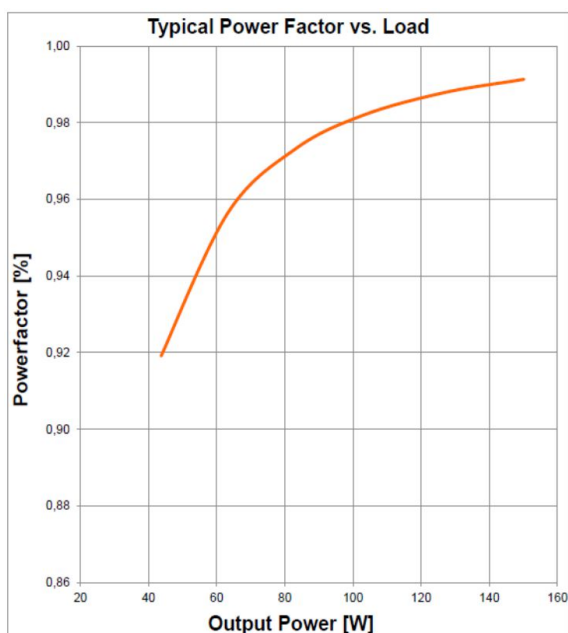
Electrical data

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

1) LEDset deactivated

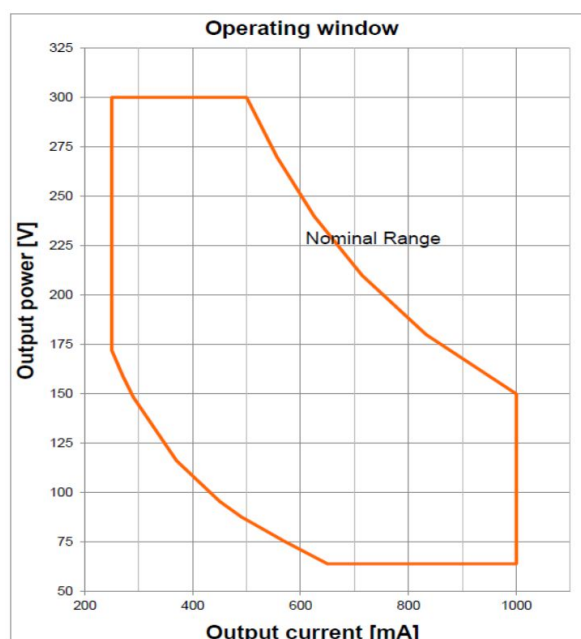
2) at 230 V, 50 Hz

Typical Power Factor v Load



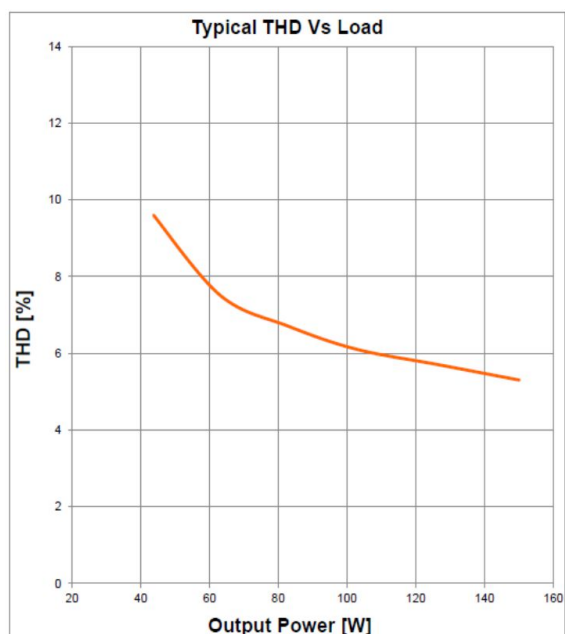
OT FIT 150/220-240/1A0 D NFC IND Typical Power Factor vs. Load

Operating Window



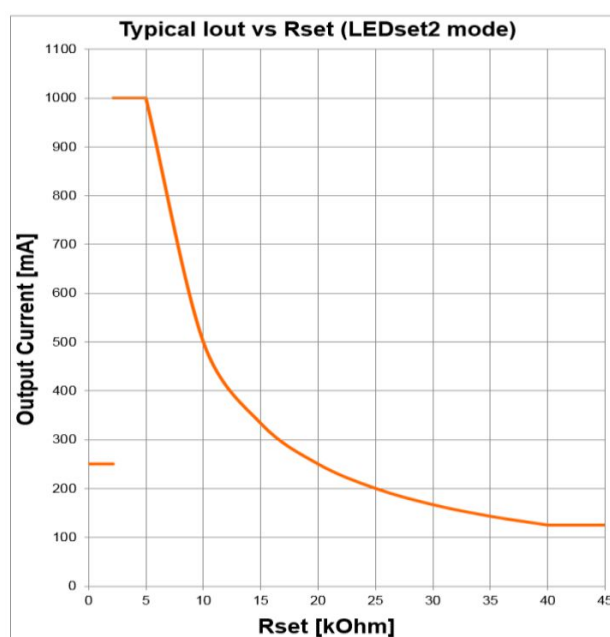
OT FIT 150/220-240/1A0 D NFC IND Operating Window

Typical THD v Load



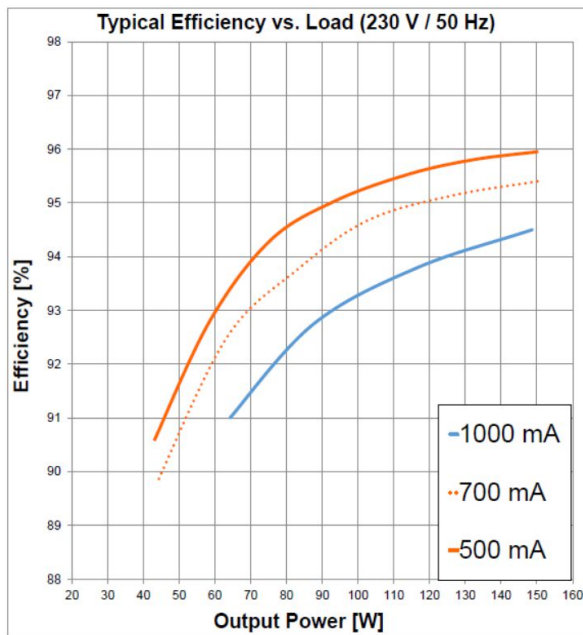
OT FIT 150/220-240/1A0 D NFC IND Typical THD Vs Load

Typical Iout v Rset LEDset2 mode



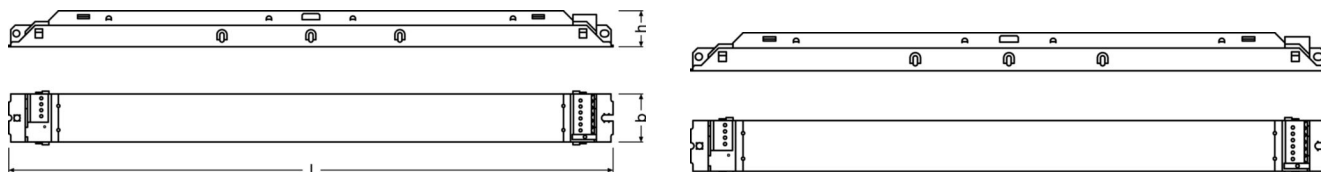
OT FIT 150/220-240/1A0 D NFC IND Typical Iout vs Rset (LEDset2 mode)

Typical Efficiency v Load 230 V 50 Hz



OT FIT 150/220-240/1A0 D NFC IND Typical Efficiency vs. Load (230 V / 50 Hz)

Dimensions & weight



Length	360.0 mm
Height	21.0 mm
Width	30.0 mm
Product weight	260.00 g
Cable cross-section, input side	0.5...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²
Wire preparation length, input side	8.0...9.0 mm
Wire preparation length, output side	8.0...9.0 mm
Mounting hole spacing, length	350.0 mm

Colors & materials

Casing material	Metal
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Temperatures & operating conditions

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

1) Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h / 100000 h ¹⁾
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1) At maximum $T_c = 85^\circ\text{C}$ / 10% failure rate / At $T_{\text{case}} = 75^\circ\text{C}$ at T_c point / 10% failure rate

Additional product data

Encapsulated	No
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Capabilities

Dimmable	No
Max. cable length to lamp/LED module	5.0 m ¹⁾
Overload protection	Automatic reversible
Overheating protection	Automatic reversible
Suitable for emergency lighting	Yes
Suitable for fixtures with prot. class	I
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Constant lumen function	Programmable
Intended for no-load operation	No
No-load proof	Yes
Number of channels	1
Programming interface	NFC, LEDset
Short-circuit protection	Automatic reversible

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

Programming

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

Certificates & standards

Type of protection	IP20
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

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	14-06-2024
Primary Article Identifier	4052899990142
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 ENEC 40038085 230824
Certificates	PDF	▶ INOTEC-Conformity declaration AM15161 OT FIT 150 220-240 1A0 D NFC IND L (EN)
Certificates	PDF	▶ EATON(CEAG) Conformity declaration AM15161 OT FIT 150 220-240 1A0 D NFC IND L (EN)
CAD data 3-dim	Compressed	▶ OT FIT D NFC IND L CAD3PDF 281119
CAD data 2-dim	Compressed	▶ OT FIT D NFC IND L CAD2PDF 281119
CAD data	Compressed	▶ OT FIT D NFC IND L IGS 281119
CAD data	Compressed	▶ OT FIT D NFC IND L STEP 281119
Mandatory Publications	PDF	▶ OT FIT D NFC IND L UK DoC 4281285 03 080923
Mandatory Publications	PDF	▶ OT FIT D NFC IND L CE 3695761 09 080823
User instruction	PDF	▶ UI OT FIT D NFC IND L

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 Pieces	385 x 160 x 100 mm	6.16 dm ³	268.70 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 150/220-240/1A0 D NFC IND L	PRH101 -USB	▶ 6977078996938
OT FIT 150/220-240/1A0 D NFC IND L	CPR30 -USB	▶ 6977078996945

Disclaimer

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