

OT 150/220-240/1A4 1DIMA P7

OPTOTRONIC - 1DIM NFC IP67 | AstroDIM – constant current LED drivers



Product family features

- Supply voltage: 220...240 V
- Available with output current range: up to 1,400 mA
- AstroDIM for autonomous dimming with five independent levels (astro, time mode)
- Constant Lumen Output (CLO)
- IP rating: IP67 with independent installation
- Overtemperature protection

Product family benefits

- Easy and fast wireless luminaire programming
- Very high efficiency
- High surge protection: up to 6 kV
- Great flexibility due to wide operating temperature range of -40...55 °C
- Optimized for AstroDIM operation

Areas of application

- Street and urban lighting
- Industry

Technical data

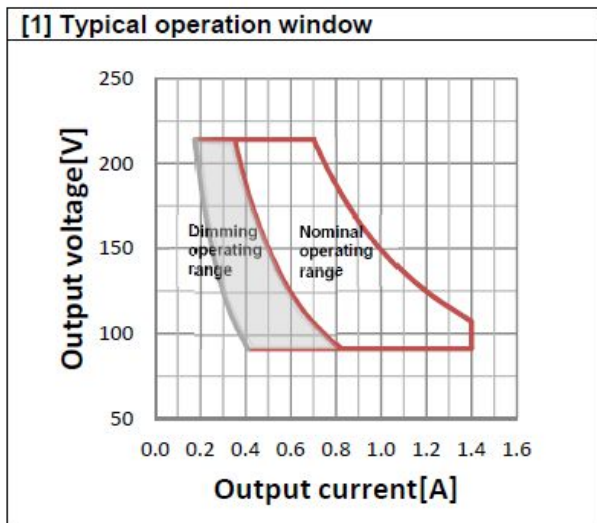
Electrical data

Nominal input voltage	220...240 V
Mains frequency	50...60 Hz
Input voltage AC	198...264 V
Total harmonic distortion	< 10 %
Power factor λ	0.91C...0.97
Efficiency in full-load	92 % ¹⁾
Device power loss	13 W
Inrush current	95 A ²⁾
Max. ECG no. on circuit breaker 10 A (B)	3
Max. ECG no. on circuit breaker 16 A (B)	5
Surge capability (L/N-Ground)	10 kV
Surge capability (L-N)	6 kV
Nominal output voltage	107...214 V
U-OUT (working voltage)	91...214 V
Nominal output current	700...1400 mA
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 %
Nominal output power	150 W
Maximum output power	150 W
Galvanic isolation	basic

1) at 230 V, 50 Hz

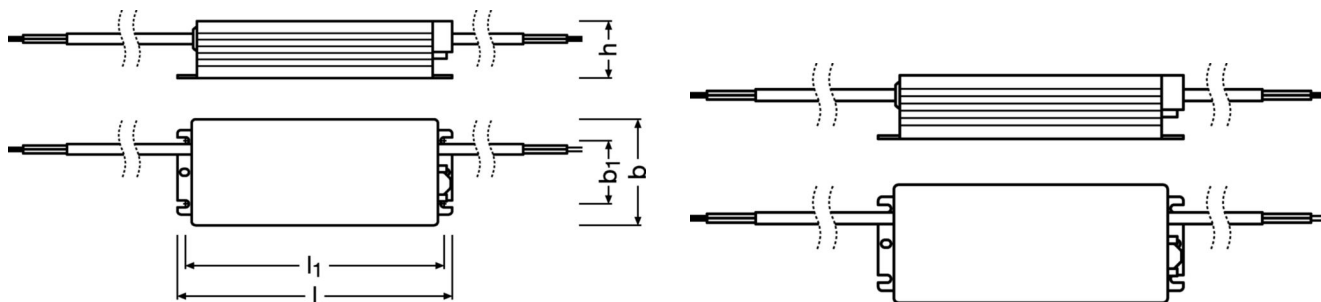
2) $t_{\text{width}} = 264 \mu\text{s}$ (measured at 50 % I_{peak})

Operating Window



OT 150/220-240/1DIMA 1A4 P7 Operating Window

Dimensions & weight



Length	212.6 mm
Width	68.5 mm
Height	38.6 mm
Mounting hole spacing, length	199.8 mm
Mounting hole spacing, width	42.9 mm
Cable cross-section, input side	1.0 mm ²
Cable cross-section, output side	1.0 mm ²
Wire preparation length, input side	10 mm
Product weight	940.00 g

Colors & materials

Casing material	Metal
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Temperatures & operating conditions

Ambient temperature range	-40...+55 °C
Maximum temperature at tc test point	85 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-25...85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

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 $T_c = 75^\circ\text{C}$ / 10% failure rate

Capabilities

Dimmable	Yes
Dimming interface	AstroDIM
Dimming range	25...100 %
Constant lumen function	Yes
Max. cable length to lamp/LED module	2.0 m ¹⁾
Suitable for fixtures with prot. class	I
Number of channels	1
Overheating protection	Yes
Overload protection	Yes
Short-circuit protection	Yes
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	NFC
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Certificates & standards

Approval marks – approval	CCC / CE / ENEC
Standards	Acc. to EN 60598-1 / Acc. to EN 61347-1 / Acc. to EN 61547
Type of protection	IP67
Protection class	I

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	04-06-2024
Primary Article Identifier	4052899495050 4062172040563 4050732430916 8010703806047
Declaration No. in SCIP database	In work

Download Data

File		
Brochures	PDF	► 4 DIM NFC G3 CE LED drivers and T4T C (EN)
CAD data	Compressed	► OT 150 P7 STEP 300323
Mandatory Publications	PDF	► OT 1DIMA P7 WP UK DoC 4306012 110522
Mandatory Publications	PDF	► UKD OT xx P7 family 9C1-4281273-EN-02 2022-02
Mandatory Publications	PDF	► CED OT xx P7 outdoor family 9C1-3799852-EN-05 2022-02
Mandatory Publications	PDF	► OT 1DIMA P7 WP CE 3612841 251023
User instruction	PDF	► OPTOTRONIC® 1DIMA P7

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
4052899495050	OT 150/220-240/1A4 1DIMA P7	Shipping carton box 10 Pieces	469 x 289 x 128 mm	17.35 dm ³	10336.00 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 150/220-240/1A4 1DIMA P7	PRH101 -USB	▶ 6977078996938
OT 150/220-240/1A4 1DIMA P7	CPR30 -USB	▶ 6977078996945
OT 150/220-240/1A4 1DIMA P7	NFC Scanner by TERTIUM Technology	▶ 4055462203571
OT 150/220-240/1A4 1DIMA P7	NFC Scanner by TERTIUM Technology	▶ 4055462290281

Disclaimer

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