

OT 150/220-240/1A4 1DIMA P7 (NEW)

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

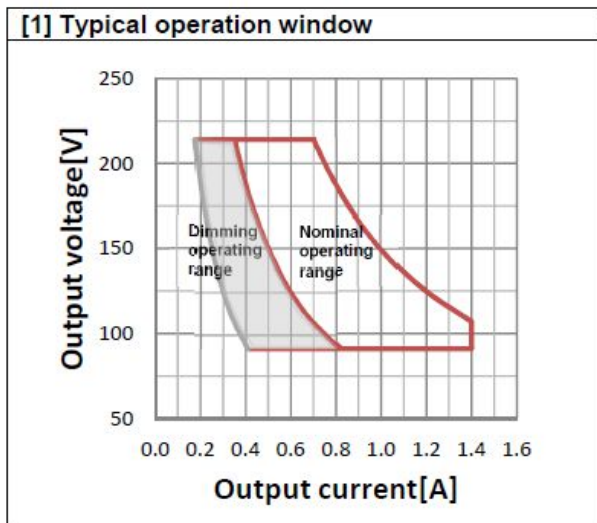
Electrical data

Max. ECG no. on circuit breaker 10 A (B)	3
Max. ECG no. on circuit breaker 16 A (B)	5
Maximum output power	150 W
Minimum output current	400 mA
Nominal output current	700...1400 mA
Nominal output power	150 W
Nominal output voltage	107...214 V
Nominal input voltage	220...240 V
Input voltage AC	198...264 V
Device power loss	13 W
Efficiency in full-load	92 % ¹⁾
Inrush current	95 A ²⁾
Power factor λ	0.91C...0.97
Mains frequency	50...60 Hz
Surge capability (L-N)	6 kV
Surge capability (L/N-Ground)	10 kV
U-OUT (working voltage)	91...214 V
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 %
Total harmonic distortion	< 10 %

1) at 230 V, 50 Hz

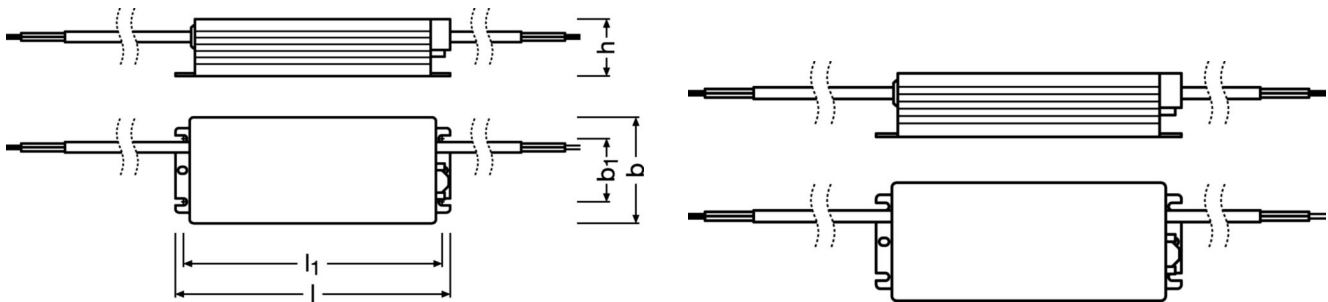
2) $t_{width} = 264 \mu s$ (measured at 50 % I_{peak})

Operating Window



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

Dimensions & weight



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

Colors & materials

Casing material	Metal
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Temperatures & operating conditions

Ambient temperature range	-40...+55 °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	-25...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 $T_c = 75^\circ\text{C}$ / 10% failure rate

Capabilities

Max. cable length to lamp/LED module	2.0 m ¹⁾
Number of channels	1
Dimmable	Yes
Dimming interface	AstroDIM
Dimming range	25...100 %
Overload protection	Yes
Overheating protection	Yes
Short-circuit protection	Yes
Suitable for fixtures with prot. class	I
Constant lumen function	Yes
No-load proof	Yes

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

Certificates & standards

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

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
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		
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

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	1033.60 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.