IT DALI 240/120-240/1A0 P7

ICUTRONIC - DALI (AstroDIM) IP67 | Constant current LED drivers



Características del producto

- Available with different wattage: 20 W, 40 W, 75 W, 110 W, 150 W, 200 W, 240 W
- AstroDim functionality
- DALI-2 certified (Part 251, 252, 253)
- DALI dimming (min.10%)
- Output current range 350…1050 mA
- Tensión de suministro: 120…240 V

Beneficios del producto

- Versatile DALI driver due to flexible output characteristic
- Fully programmable via T4T software (DALI / AstroDIM / Constant Lumen)
- Elevada protección de sobretensión: hasta 10 kV
- IP rating: IP67 (Independent installation)
- High efficiency and reliability
- 5 years guarantee

Áreas de aplicación

- Industry lighting
- Iluminación de calles y urbana
- Apto para el uso en luminarias en exteriores con clase de protección I y II

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Datos técnicos

Datos eléctricos

Tensión nominal	120…240 V
Tensión de entrada	120…264 V
Corriente nominal	1,20 A [1)]
Frecuencia de red	50/60 Hz
Factor de potencia λ	0,95 [2)]
Distorsión armónica total	< 10 % [3)]
Pérdida de potencia del equipo	18.0 W [4)]
Networked standby power [AGGR]	<0.50 W [5)]
Corriente de encendido IP	73.6 A [6)]
Nº de ECE máximos con automátic 10 A (B)	3 [7)]
Nº de ECE máximos con automátic 16 A (B)	5 [7)]
Nº de ECE máximos con automátic 25 A (B)	7 [7)]
Resis. a la sobretensión (L/N-tierra)	10 kV [8)]
Tensión de aislamiento (L-N)	6 kV
Potencia de salida	240 W
Potencia de salida máxima	240 W
Efficiency in full-load	93% [5)]
Corriente de salida	350…1050 mA [9)]
Default output current	700 mA
Corriente de salida tolerancia	±5 %
Corriente de salida rizada (100 Hz)	+/- 5 % [10)]
Output PSTLM	≤1
Output SVM	≤0.4
Corriente de salida mínima	70 mA [11)]
Aislamiento galvánico	basic
Tensión de salida	172…343 V
U-OUT	400 V
Núm. máx. ECEs en 16 A MCB con EBN-OS	10

1) Vin 230v 50Hz

2) Carga total a 230 V/50 Hz

3) At full load, 230 V, 50 Hz / see graphs

4) At Full load, 230 V, 50 Hz

5) at 230 V, 50 Hz

6) Max, th = 378 µs @ 50 % Ipk

7) Type B

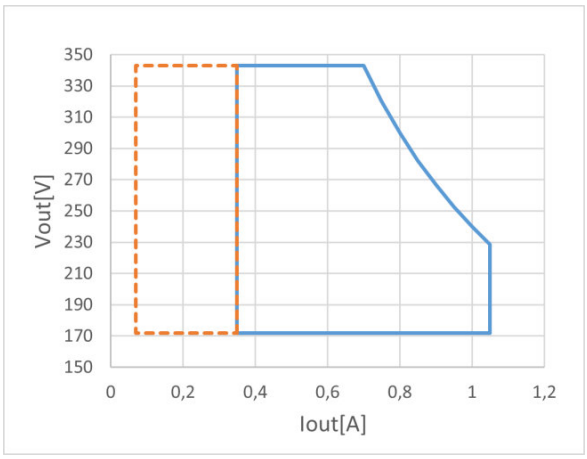
8) L - N acc to EN 61547 (>15 pulses) / L/N – PE acc to EN 61547 (>15 pulses)

9) Default 700 mA; 200…1050 mA adjustable

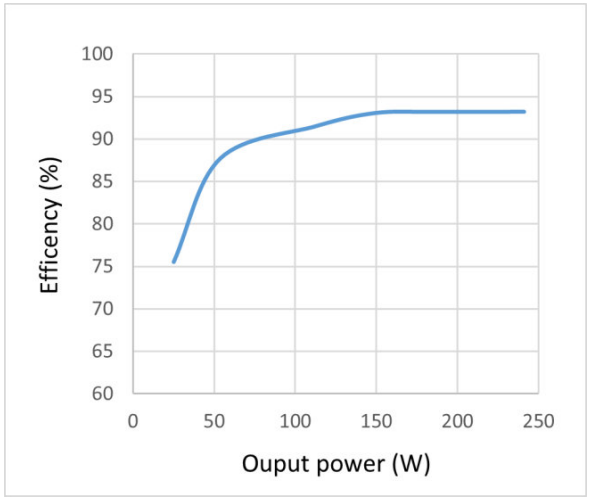
10) Ripple / average @ 100 Hz

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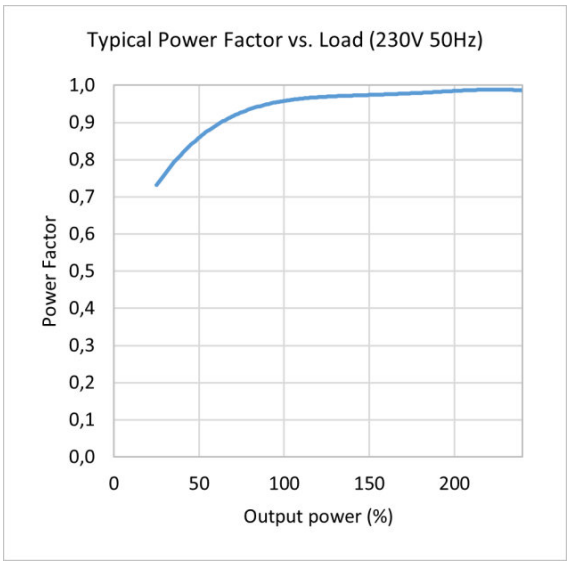
[11] Physical Minimum Dimming Current



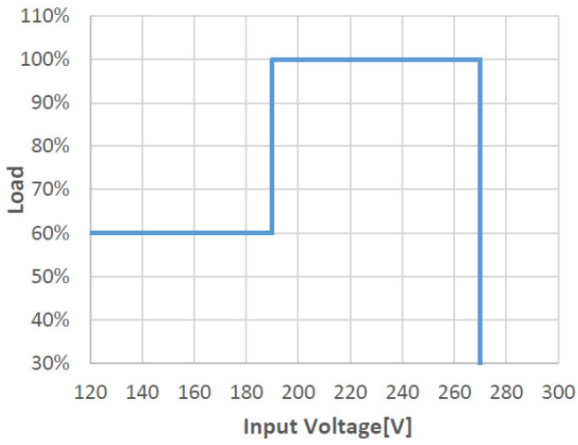
IT DALI 240 120-240 1A0 P7 Operating Window



IT DALI 240 120-240 1A0 P7 Typical Efficiency vs Load

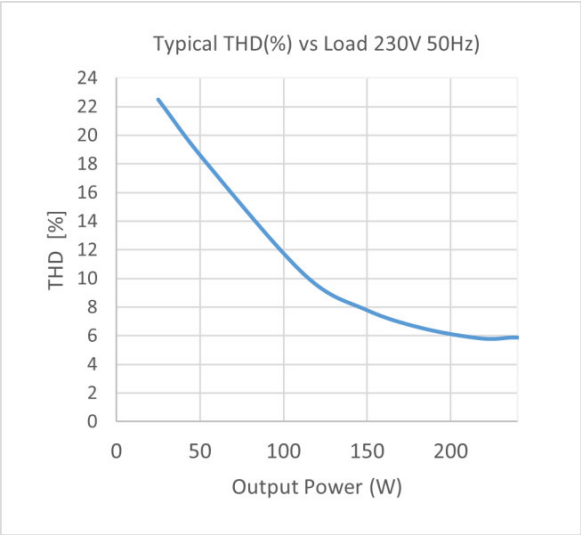


IT DALI 240 120-240 1A0 P7 Typical Power Factor vs Load



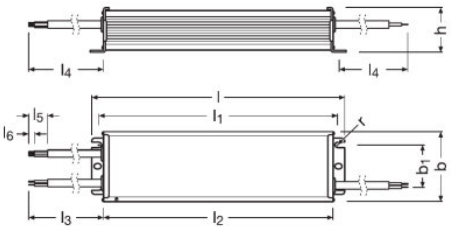
IT DALI 120-240 1A0 P7 Typical Input Voltage vs Load

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IT DALI 240 120-240 1A0 P7 Typical THD vs. Load

Dimensiones y peso



Largo	252,0 mm
Ancho	61,5 mm
Alto	39,5 mm
Distancia entre taladros longitud	252.0 mm
Distancia entre taladros anchura	38 mm
Peso del producto	1000,00 g
Sección de cable, entrada	1,0 mm²
Sección de cable, salida	1,0 mm²
Long aislamiento parte de la entrada	10 mm

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Temp. y condiciones de funcionamiento

Margen de temperatura ambiente	-40…+55 °C
Temperatura de almacenamiento	-40…+85 °C
Temp. máx. en el punto de prueba tc	90 °C [1)]
Temp. máx de la carcasa en caso de fallo	120 °C
Humedad en el aire	5…95 % [2)]

[1)] Measured on tc point indicated on the product label.

[2)] Sin condensación

Duración de vida

ECE vida útil	50000 / 100000 h [1)]

[1)] T_c = 85°C, with max. 10% failure rate / T_c = 75°C, with max. 10% failure rate

Capacidades

Regulable	Sí
Interfaz DIM	DALI-2 / AstroDIM
Margen de regulación	10…100 %
Apto para luminarias con clase de prot.	I / II
Función de lumen constante	Programmable
Ent. de coeficiente de temp. negativo	No
Protección contra cortocircuito	Sí
Prueba de no carga	Sí
Intended for no-load operation	No
Longitud cableado máx. ECE/lámpara	2,0 m [1)]
Protección contra sobrecarga	Sí
LEDset	No
Number of channels	1
DALI-2 Energy Data	Sí [2)]
DALI-2 Diagnostic Data	Sí [3)]

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

[2)] Acc. DALI part 252

[3)] Acc. DALI part 253

Programming

Box programming	No
Tuner4TRONIC	Sí
Tuner4TRONIC Field App	No
Programming device	DALI

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Programmable features

Constant Lumen	Sí
Driver Guard	No
AstroDIM	Sí
StepDIM	No
MainsDIM	No
Emergency Mode	No
Configuration Lock	Sí
DALI-2 Luminaire Data	Sí [1)]

[1)] Acc. DALI part 251

Certificados & Normas

Tipo de protección	IP67
Normas	Según EN 61347-1/Según EN 61347-2-13/Según EN 55015/Según EN 61000-3-2/Según EN 61000-3-3/Acc. to EN 60598-1 (ED.8)/Según EN 62384/Según EN 61547
Símbolos de homologación	CCC / CE / TISI / RCM / DALI-2 / ENEC / UKCA / IP67

Datos logísticos

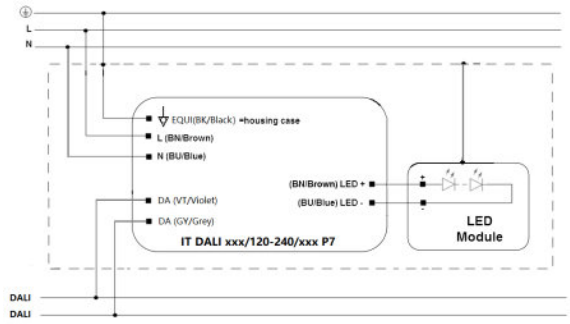
Número estadístico de material	85044083900

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	19-05-2023
Primary Article Identifier	4062172286633
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	1f9b6468-25c2-4970-98ab-076b05936996

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Esquema de conexión



IT DALI 120 240 P7 Wiring Diagram

	Item	Value	Unit	Remarks
INPUT	Cable cross section	1.0	mm²	L (Brown/BN), N (Blue/BU), EQUI (Black/BK)
	Wire preparation length	10	mm	
	Type of wire	Flexible three core cable		
	Lead length	300 ± 20	mm	
OUTPUT	Cable cross section	1.0	mm²	LED+ (Brown/BN), LED- (Blue/BU)
	Wire preparation length	10	mm	
	Type of wire	Flexible two core cable		
	Lead length	300 ± 20	mm	
DIMMING	Cable cross section	0.3	mm²	DALI+ (Violet/VT), DALI- (Grey/GY)
	Wire preparation length	10	mm	
	Type of wire	Flexible two core cable(		
	Lead length	220 ± 20	mm	
CABLE LENGTH	LED+/LED-	< 2	m	

IT DALI 120 240 P7 Wiring Diagram

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Texto de la hoja técni

- Input voltage range: Nominal operation at 198 – 264Vac. Workable at 120 – 277Vac without safety issue (refer to [8] Typical Input Voltage vs. Load), but normal performance such as THD, EMI, lifetime etc are not guaranteed;
- Input voltage range: Nominal operation at 198 – 264Vac. Workable also at 120 – 198Vac without safety issue (refer to graph Typical Input Voltage vs. Load), but normal performance such as THD, EMI, lifetime etc are not guaranteed;
- Output overload/voltage protection: In case the input voltage of the load exceeds the output voltage range which is auto defined by output current setting of the driver (Vo=Po/Io), it automatically reduces the output current. The driver needs a power cycle to restart or DALI command with the correct load connected.
- Output short circuit protection: shut down of driver occur in case of output short circuit without damage to the unit.
- Output over load/voltage protection: In case the input voltage of the load exceeds the output voltage range which is auto defined by output current setting of the driver (Vo=Po/Io), it automatically reduces the output current. Auto-reversible without mains power on/off;
- No load protection: the driver automatically adjusts the output voltage to the maximum output voltage which is auto defined by output current setting of the driver (Vo=Po/Io) if no load is connected. The driver needs a power cycle to restart with the correct load connected.
- Over temperature protection: the driver is protected against temporary overheating by shutting down until the overheating eliminated; Auto-reversible when temperature back to normal;
- Disconnect the power before servicing. Terminal block is not included, installation must be performed by qualified person;
- The EQUI (housing) shall be connected to the heat sink of the LED module to improve the surge withstand capability of the system and EMI in critical luminaires.
- Not suitable to be mounted in celling corner
- The LED control gear cannot be abutted against or covered by normally flammable materials or used in installations where building insulation or debris is, or may be, present in normal use.
- The external flexible cable or cord of this driver cannot be replaced; if the cord is damaged, the driver shall be destroyed.
- The dimmer should fulfill at least basic insulation between control voltage and dimming circuit (for Australia and New Zealand).
- The minimum clearance distance from the top and sides of the controlgear to normally flammable building elements is A=B=C=Min.10mm, this clause does not apply when the LED driver is built-in the luminares (for Australia and New Zealand).
- The startup time to reach the set output current is less than 2s.
- For further details please consult the application note;

Descarga datos

	Fichero
	User instruction User Instruction
	Datos CAD IT DALI 240 1A0 P7 STEP 300323

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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

Código del producto	Descripción del producto	Unidad de embalaje (Piezas/unidad)	Dimensiones (largo x ancho x alto)	Volúmen	Peso bruto
4062172286633	IT DALI 240/120-240/1A0 P7	Embalaje de envío 15	449 mm x 334 mm x 163 mm	24.44 dm^3	15854.00 g

El código del producto mencionado describe la unidad más pequeña de la cantidad que se puede pedir. Una unidad de envío puede contener uno o más productos individuales. Al cursar un pedido, introduzca la cantidad de la unidad de envío o su múltiple.

Privacidad de datos

This OSRAM driver can be configured using the Tuner4TRONIC software. This requires registering on www.myosram.com and downloading theTuner4TRONIC software from the Internet. The Tuner4TRONIC software enables users to access and view the operational data of a luminaire or driver via the corresponding programming interfaces. A password key (Config Lock) must be set up in the driver via the Tuner4TRONIC software in order to control which users can access and view operational data. Follow the instructions for password setup. To grant an external person or company rights to access or view operational data, you can assign password keys. In this case, however, you are responsible for ensuring that the third party concerned takes notice of the information described here. However, OSRAM can read out operating data from devices for maintenance and service purposes even when a password key has been assigned. In individual cases, OSRAM will also use its access rights in order to optimize or improve driver hardware and driver functions. In accordance with data privacy principles, any user of operating data (luminaire manufacturers, third parties with access rights) must ensure that personal data (e.g. name, address, location IDs) are only merged with the prior written consent of the person (end user) concerned. The respective user of the operating data is responsible for providing evidence of consent.

Referencias / links

* For more information on the multi-level guarantee and the terms and conditions of the guarantee visit https://
- www.inventronics-light.com/multilevel-guarantees

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