

ICUTRONIC - DALI (AstroDIM) IP67

Constant current LED drivers



Areas of application

- Industry lighting
- Street and urban lighting
- Suitable for use in outdoor luminaires of protection class I and II

Product family benefits

- Versatile DALI driver due to flexible output characteristic
- Fully programmable via T4T software (DALI / AstroDIM / Constant Lumen)
- Lifetime: up to 100,000 h (depending on T_c temperature, max. 10 % failure rate)
- High efficiency
- High surge protection: up to 10 kV
- IP rating: IP67 (Independent installation)
- High efficiency and reliability
- 5 years guarantee



Product family datasheet

Product family features

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

Product family datasheet

Technical data

Electrical data

Product description	Nominal voltage	Input voltage AC	Nominal current	Mains frequency	Power factor λ	Total harmonic distortion
IT DALI 20/120...240/1A0 P7	120...240 V	120...264 V	0.11 A ¹⁾	50/60 Hz	0.95 ²⁾	< 10 % ³⁾
IT DALI 40/120...240/1A0 P7	120...240 V	120...264 V	0.20 A ¹⁾	50/60 Hz	0.95 ²⁾	< 10 % ³⁾
IT DALI 75/120...240/1A0 P7	120...240 V	120...264 V	0.36 A ¹⁾	50/60 Hz	0.95 ²⁾	< 10 % ³⁾
IT DALI 110/120...240/1A0 P7	120...240 V	120...264 V	0.53 A ¹⁾	50/60 Hz	0.84C099 ²⁾	< 10 % ³⁾
IT DALI 150/120...240/1A0 P7	120...240 V	120...264 V	0.71 A ¹⁾	50/60 Hz	0.86C...0.99 ²⁾	< 10 % ³⁾
IT DALI 200/120...240/1A0 P7	120...240 V	120...264 V	1.10 A ¹⁾	50/60 Hz	0.95 ²⁾	< 10 % ³⁾
IT DALI 240/120-240/1A0 P7	120...240 V	120...264 V	1.20 A ¹⁾	50/60 Hz	0.95 ²⁾	< 10 % ³⁾

Product description	Device power loss	Networked standby power	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)
IT DALI 20/120...240/1A0 P7	4.0 W ⁴⁾	<0.50 W ⁵⁾	30 A ⁶⁾	14 ⁷⁾	22 ⁷⁾
IT DALI 40/120...240/1A0 P7	5.0 W ⁴⁾	<0.50 W ⁵⁾	30 A ⁶⁾	14 ⁷⁾	22 ⁷⁾
IT DALI 75/120...240/1A0 P7	6.0 W ⁴⁾	<0.50 W ⁵⁾	86 A ¹²⁾	9 ⁷⁾	14 ⁷⁾
IT DALI 110/120...240/1A0 P7	9.0 W ⁴⁾	<0.50 W ⁵⁾	66 A ¹³⁾	9 ⁷⁾	14 ⁷⁾
IT DALI 150/120...240/1A0 P7	12 W ⁴⁾	<0.50 W ⁵⁾	45 A ⁶⁾	9 ⁷⁾	14 ⁷⁾
IT DALI 200/120...240/1A0 P7	15.0 W ⁴⁾	<0.50 W ⁵⁾	72 A ¹⁵⁾	3 ⁷⁾	5 ⁷⁾
IT DALI 240/120-240/1A0 P7	18.0 W ⁴⁾	<0.50 W ⁵⁾	73.6 A ¹⁶⁾	3 ⁷⁾	5 ⁷⁾

Product description	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)	Surge capability (L-N)	Nominal output power
IT DALI 20/120...240/1A0 P7	34 ⁷⁾	10 kV ⁸⁾	6 kV	20 W
IT DALI 40/120...240/1A0 P7	34 ⁷⁾	10 kV ⁸⁾	6 kV	40 W
IT DALI 75/120...240/1A0 P7	22 ⁷⁾	10 kV ⁸⁾	6 kV	75 W
IT DALI 110/120...240/1A0 P7	22 ⁷⁾	10 kV ⁸⁾	6 kV	110 W
IT DALI 150/120...240/1A0 P7	22 ⁷⁾	10 kV ¹⁴⁾	6 kV	150 W
IT DALI 200/120...240/1A0 P7	8 ⁷⁾	10 kV ⁸⁾	6 kV	200 W
IT DALI 240/120-240/1A0 P7	7 ⁷⁾	10 kV ⁸⁾	6 kV	240 W

Product description	Maximum output power	Efficiency in full-load	Nominal output current
IT DALI 20/120...240/1A0 P7	20 W	86 % ⁵⁾	350...1050 mA ⁹⁾
IT DALI 40/120...240/1A0 P7	40 W	90 % ⁵⁾	350...1050 mA ⁹⁾
IT DALI 75/120...240/1A0 P7	75 W	92 % ⁵⁾	350...1050 mA ⁹⁾
IT DALI 110/120...240/1A0 P7	110 W	93 % ⁵⁾	350...1050 mA ⁹⁾
IT DALI 150/120...240/1A0 P7	150 W	93 % ⁵⁾	350...1050 mA ⁹⁾

Product family datasheet

Product description	Maximum output power	Efficiency in full-load	Nominal output current
IT DALI 200/120...240/1A0 P7	200 W	92 % ⁵⁾	350...1050 mA ⁹⁾
IT DALI 240/120-240/1A0 P7	240 W	93 % ⁵⁾	350...1050 mA ⁹⁾

Product description	Default output current	Output current tolerance	Output ripple current (100 Hz)
IT DALI 20/120...240/1A0 P7	700 mA	±5 %	+/- 5 % ¹⁰⁾
IT DALI 40/120...240/1A0 P7	700 mA	±5 %	+/- 5 % ¹⁰⁾
IT DALI 75/120...240/1A0 P7	700 mA	±5 %	+/- 5 % ¹⁰⁾
IT DALI 110/120...240/1A0 P7	700 mA	±5 %	+/- 5 % ¹⁰⁾
IT DALI 150/120...240/1A0 P7	700 mA	±5 %	+/- 5 % ¹⁰⁾
IT DALI 200/120...240/1A0 P7	700 mA	±5 %	+/- 5 % ¹⁰⁾
IT DALI 240/120-240/1A0 P7	700 mA	±5 %	+/- 5 % ¹⁰⁾

Product description	Output PSTLM	Output SVM	Minimum output current
IT DALI 20/120...240/1A0 P7	≤1	≤0.4	70 mA ¹¹⁾
IT DALI 40/120...240/1A0 P7	≤1	≤0.4	70 mA ¹¹⁾
IT DALI 75/120...240/1A0 P7	≤1	≤0.4	70 mA ¹¹⁾
IT DALI 110/120...240/1A0 P7	≤1	≤0.4	70 mA ¹¹⁾
IT DALI 150/120...240/1A0 P7	≤1	≤0.4	70 mA ¹¹⁾
IT DALI 200/120...240/1A0 P7	≤1	≤0.4	70 mA ¹¹⁾
IT DALI 240/120-240/1A0 P7	≤1	≤0.4	70 mA ¹¹⁾

Product description	Galvanic isolation	Max. no. of ECGs on 16A MCB with EBN-OS	U-OUT (working voltage)	Nominal output voltage
IT DALI 20/120...240/1A0 P7	SELV	45	60 V	15...29 V
IT DALI 40/120...240/1A0 P7	SELV	45	60 V	29...57 V
IT DALI 75/120...240/1A0 P7	SELV	30	120 V	55...108 V
IT DALI 110/120...240/1A0 P7	Double	30	180 V	75...157 V
IT DALI 150/120...240/1A0 P7	basic	15	300 V	110...214 V
IT DALI 200/120...240/1A0 P7	basic	10	400 V	145...286 V
IT DALI 240/120-240/1A0 P7	basic	10	400 V	172...343 V

¹⁾ Vin 230v 50Hz

²⁾ Full load at 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 = 205 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

¹¹⁾ Physical Minimum Dimming Current

Product family datasheet

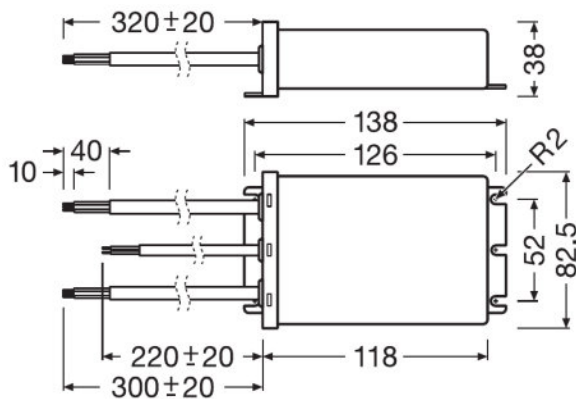
12) Max, th = 112 µs @ 50 % Ipk
13) Max, th = 145 µs @ 50 % Ipk
14) L/N – PE acc to EN 61547 (>15 pulses) / L - N acc to EN 61547 (>15 pulses)
15) Max, th = 338 µs @ 50 % Ipk
16) Max, th = 378 µs @ 50 % Ipk

Dimensions & weight

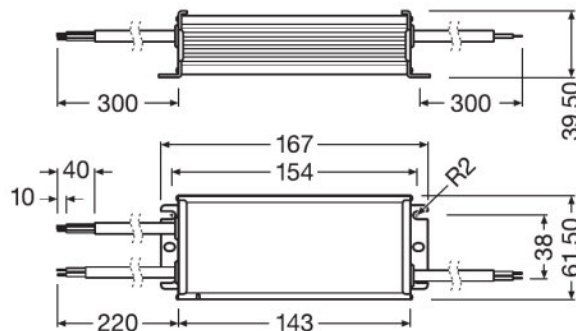
Product description	Length	Width	Height	Mounting hole spacing, length	Mounting hole spacing, width	Product weight
IT DALI 20/120...240/1A0 P7	138.0 mm	82.5 mm	38.0 mm	126.0 mm	52.0 mm	540.00 g
IT DALI 40/120...240/1A0 P7	1380 mm	825 mm	380 mm	126.0 mm	52.0 mm	54000 g
IT DALI 75/120...240/1A0 P7	1670 mm	615 mm	395 mm	154.0 mm	38 mm	61000 g
IT DALI 110/120...240/1A0 P7	1760 mm	615 mm	395 mm	163.0 mm	38 mm	65000 g
IT DALI 150/120...240/1A0 P7	184.0 mm	61.5 mm	39.5 mm	171.0 mm	38 mm	700.00 g
IT DALI 200/120...240/1A0 P7	226.0 mm	61.5 mm	39.5 mm	213.0 mm	38 mm	900.00 g
IT DALI 240/120-240/1A0 P7	252.0 mm	61.5 mm	39.5 mm	252.0 mm	38 mm	1000.00 g

Product description	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side
IT DALI 20/120...240/1A0 P7	1.0 mm ²	1.0 mm ²	10 mm
IT DALI 40/120...240/1A0 P7	1.0 mm ²	1.0 mm ²	10 mm
IT DALI 75/120...240/1A0 P7	1.0 mm ²	1.0 mm ²	10 mm
IT DALI 110/120...240/1A0 P7	1.0 mm ²	1.0 mm ²	10 mm
IT DALI 150/120...240/1A0 P7	1.0 mm ²	1.0 mm ²	10 mm
IT DALI 200/120...240/1A0 P7	1.0 mm ²	1.0 mm ²	10 mm
IT DALI 240/120-240/1A0 P7	1.0 mm ²	1.0 mm ²	10 mm

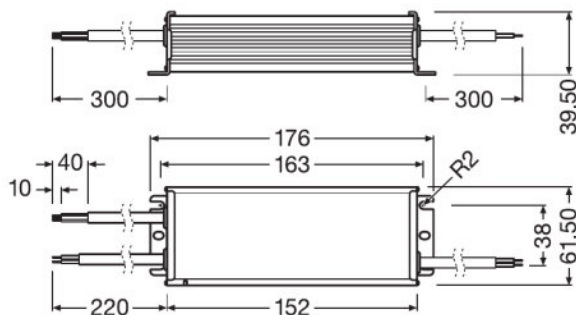
Product line drawing



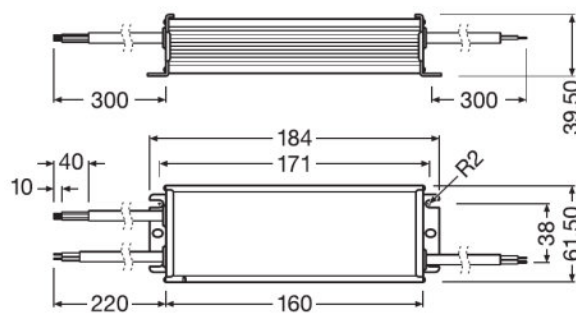
IT DALI 20/120...240/1A0 P7, IT DALI 40/120...240/1A0 P7



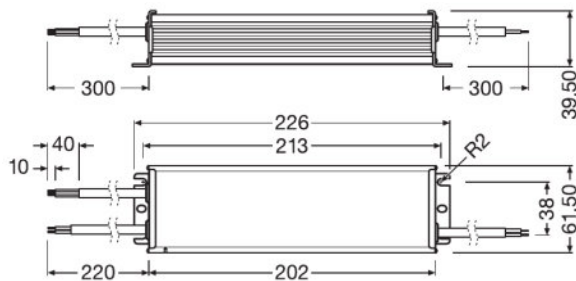
IT DALI 75/120...240/1A0 P7



IT DALI 110/120...240/1A0 P7



IT DALI 150/120...240/1A0 P7



IT DALI 200/120...240/1A0 P7, IT DALI 240/120-240/1A0 P7

Temperatures & operating conditions

Product description	Ambient temperature range	Temperature range at storage	Maximum temperature at tc test point	Max.housing temperature in case of fault
IT DALI 20/120...240/1A0 P7	-40...+70 °C	-40...+85 °C	80 °C ¹⁾	120 °C
IT DALI 40/120...240/1A0 P7	-40...+65 °C	-40...+85 °C	80 °C ¹⁾	120 °C
IT DALI 75/120...240/1A0 P7	-40...+65 °C	-40...+85 °C	80 °C ¹⁾	120 °C
IT DALI 110/120...240/1A0 P7	-40...+60 °C	-40...+85 °C	85 °C ¹⁾	120 °C
IT DALI 150/120...240/1A0 P7	-40...+60 °C	-40...+85 °C	90 °C ¹⁾	120 °C
IT DALI 200/120...240/1A0 P7	-40...+55 °C	-40...+85 °C	90 °C ¹⁾	120 °C
IT DALI 240/120-240/1A0 P7	-40...+55 °C	-40...+85 °C	90 °C ¹⁾	120 °C
Product description	Permitted rel. humidity during operation			
IT DALI 20/120...240/1A0 P7	5...95 % ²⁾			
IT DALI 40/120...240/1A0 P7	5...95 % ²⁾			
IT DALI 75/120...240/1A0 P7	5...95 % ³⁾			
IT DALI 110/120...240/1A0 P7	5...95 % ³⁾			
IT DALI 150/120...240/1A0 P7	5...95 % ³⁾			
IT DALI 200/120...240/1A0 P7	5...95 % ³⁾			
IT DALI 240/120-240/1A0 P7	5...95 % ³⁾			

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

²⁾ Non condensing, absolute humidity: 36g/m³

³⁾ Non-condensing

Lifespan

Product description	ECG lifetime
IT DALI 20/120...240/1A0 P7	50000 / 100000 h ¹⁾
IT DALI 40/120...240/1A0 P7	50000 / 100000 h ¹⁾
IT DALI 75/120...240/1A0 P7	50000 / 100000 h ¹⁾
IT DALI 110/120...240/1A0 P7	50000 / 100000 h ¹⁾
IT DALI 150/120...240/1A0 P7	50000 / 100000 h ²⁾
IT DALI 200/120...240/1A0 P7	50000 / 100000 h ²⁾
IT DALI 240/120-240/1A0 P7	50000 / 100000 h ³⁾

¹⁾ At maximum T_c = 80°C / 10% failure rate / At maximum T_c = 70°C / 10% failure rate

²⁾ At maximum T_c = 85°C / 10% failure rate / At maximum T_c = 75°C / 10% failure rate

³⁾ T_c = 85°C, with max. 10% failure rate / T_c = 75°C, with max. 10% failure rate

Capabilities

Product description	Dimmable	Dimming interface	Dimming range	Suitable for fixtures with prot. class
IT DALI 20/120...240/1A0 P7	Yes	DALI-2 / AstroDIM	10...100 %	I / II
IT DALI 40/120...240/1A0 P7	Yes	DALI-2 / AstroDIM	10...100 %	I / II
IT DALI 75/120...240/1A0 P7	Yes	DALI-2 / AstroDIM	10...100 %	I / II
IT DALI 110/120...240/1A0 P7	Yes	DALI-2 / AstroDIM	10...100 %	I / II
IT DALI 150/120...240/1A0 P7	Yes	DALI-2 / AstroDIM	10...100 %	I / II
IT DALI 200/120...240/1A0 P7	Yes	DALI-2 / AstroDIM	10...100 %	I / II
IT DALI 240/120-240/1A0 P7	Yes	DALI-2 / AstroDIM	10...100 %	I / II

Product description	Constant lumen function	NTC input	Short-circuit protection	No-load proof
IT DALI 20/120...240/1A0 P7	Programmable	No	Yes	Yes
IT DALI 40/120...240/1A0 P7	Programmable	No	Yes	Yes
IT DALI 75/120...240/1A0 P7	Programmable	No	Yes	Yes
IT DALI 110/120...240/1A0 P7	Programmable	No	Yes	Yes
IT DALI 150/120...240/1A0 P7	Programmable	No	Yes	Yes
IT DALI 200/120...240/1A0 P7	Programmable	No	Yes	Yes
IT DALI 240/120-240/1A0 P7	Programmable	No	Yes	Yes

Product description	Intended for no-load operation	Max. cable length to lamp/LED module	DALI-2 Diagnostic Data	DALI-2 Energy Data
IT DALI 20/120...240/1A0 P7	No	2.0 m ¹⁾	Yes ²⁾	Yes ³⁾
IT DALI 40/120...240/1A0 P7	No	2.0 m ¹⁾	Yes ²⁾	Yes ³⁾
IT DALI 75/120...240/1A0 P7	No	2.0 m ¹⁾	Yes ²⁾	Yes ³⁾
IT DALI 110/120...240/1A0 P7	No	2.0 m ¹⁾	Yes ²⁾	Yes ³⁾
IT DALI 150/120...240/1A0 P7	No	2.0 m ¹⁾	Yes ²⁾	Yes ³⁾
IT DALI 200/120...240/1A0 P7	No	2.0 m ¹⁾	Yes ²⁾	Yes ³⁾
IT DALI 240/120-240/1A0 P7	No	2.0 m ¹⁾	Yes ²⁾	Yes ³⁾

Product family datasheet

Product description	LEDset	Overload protection	Number of channels
IT DALI 20/120...240/1A0 P7	No	Yes	1
IT DALI 40/120...240/1A0 P7	No	Yes	1
IT DALI 75/120...240/1A0 P7	No	Yes	1
IT DALI 110/120...240/1A0 P7	No	Yes	1
IT DALI 150/120...240/1A0 P7	No	Yes	1
IT DALI 200/120...240/1A0 P7	No	Yes	1
IT DALI 240/120-240/1A0 P7	No	Yes	1

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

2) Acc. DALI part 253

3) Acc. DALI part 252

Programming

Product description	Box programming	Tuner4TRONIC	Tuner4TRONIC Field App
IT DALI 20/120...240/1A0 P7	No	Yes	No
IT DALI 40/120...240/1A0 P7	No	Yes	No
IT DALI 75/120...240/1A0 P7	No	Yes	No
IT DALI 110/120...240/1A0 P7	No	Yes	No
IT DALI 150/120...240/1A0 P7	No	Yes	No
IT DALI 200/120...240/1A0 P7	No	Yes	No
IT DALI 240/120-240/1A0 P7	No	Yes	No

Product description	Programming device
IT DALI 20/120...240/1A0 P7	DALI
IT DALI 40/120...240/1A0 P7	DALI
IT DALI 75/120...240/1A0 P7	DALI
IT DALI 110/120...240/1A0 P7	DALI
IT DALI 150/120...240/1A0 P7	DALI
IT DALI 200/120...240/1A0 P7	DALI
IT DALI 240/120-240/1A0 P7	DALI

Programmable features

Product description	Constant Lumen	Driver Guard	AstroDIM
IT DALI 20/120...240/1A0 P7	Yes	No	Yes
IT DALI 40/120...240/1A0 P7	Yes	No	Yes
IT DALI 75/120...240/1A0 P7	Yes	No	Yes
IT DALI 110/120...240/1A0 P7	Yes	No	Yes
IT DALI 150/120...240/1A0 P7	Yes	No	Yes
IT DALI 200/120...240/1A0 P7	Yes	No	Yes
IT DALI 240/120-240/1A0 P7	Yes	No	Yes

Product description	StepDIM	MainsDIM	Emergency Mode
IT DALI 20/120...240/1A0 P7	No	No	No
IT DALI 40/120...240/1A0 P7	No	No	No

Product family datasheet

Product description	StepDIM	MainsDIM	Emergency Mode
IT DALI 75/120...240/1A0 P7	No	No	No
IT DALI 110/120...240/1A0 P7	No	No	No
IT DALI 150/120...240/1A0 P7	No	No	No
IT DALI 200/120...240/1A0 P7	No	No	No
IT DALI 240/120-240/1A0 P7	No	No	No

Product description	Configuration Lock	DALI-2 Luminaire Data
IT DALI 20/120...240/1A0 P7	Yes	Yes ¹⁾
IT DALI 40/120...240/1A0 P7	Yes	Yes ¹⁾
IT DALI 75/120...240/1A0 P7	Yes	Yes ¹⁾
IT DALI 110/120...240/1A0 P7	Yes	Yes ¹⁾
IT DALI 150/120...240/1A0 P7	Yes	Yes ¹⁾
IT DALI 200/120...240/1A0 P7	Yes	Yes ¹⁾
IT DALI 240/120-240/1A0 P7	Yes	Yes ¹⁾

¹⁾ Acc. DALI part 251

Certificates & standards

Product description	Type of protection	Standards	Approval marks – approval
IT DALI 20/120...240/1A0 P7	IP67	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 60598-1 (ED.8)/Acc. to EN 62384	CCC / CE / TISI / RCM / ENEC / UKCA / DALI-2 / IP67
IT DALI 40/120...240/1A0 P7	IP67	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 60598-1 (ED.8)/Acc. to EN 62384	CCC / CE / TISI / RCM / ENEC / DALI-2 / UKCA / IP67
IT DALI 75/120...240/1A0 P7	IP67	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 60598-1 (ED.8)/Acc. to EN 62384	CCC / CE / TISI / RCM / ENEC / DALI-2 / UKCA / IP67
IT DALI 110/120...240/1A0 P7	IP67	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 60598-1 (ED.8)/Acc. to EN 62384	CCC / CE / TISI / RCM / ENEC / UKCA / DALI-2 / IP67
IT DALI 150/120...240/1A0 P7	IP67	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to IEC 55015/Acc. to IEC 61547/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to EN 60598-1 (ED.8)/Acc. to EN 62384	CCC / CE / TISI / RCM / ENEC / UKCA / DALI-2 / IP67
IT DALI 200/120...240/1A0 P7	IP67	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 60598-1 (ED.8)/Acc. to EN 62384	CCC / CE / TISI / RCM / DALI-2 / ENEC / UKCA / IP67
IT DALI 240/120-240/1A0 P7	IP67	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 60598-1 (ED.8)/Acc. to EN 62384/Acc. to EN 61547	CCC / CE / TISI / RCM / DALI-2 / ENEC / UKCA / IP67

Logistical data

Product description	Commodity code
IT DALI 20/120...240/1A0 P7	85044083900
IT DALI 40/120...240/1A0 P7	85044083900
IT DALI 75/120...240/1A0 P7	85044083900
IT DALI 110/120...240/1A0 P7	85044083900
IT DALI 150/120...240/1A0 P7	85044083900
IT DALI 200/120...240/1A0 P7	85044083900
IT DALI 240/120-240/1A0 P7	85044083900

Environmental information
Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

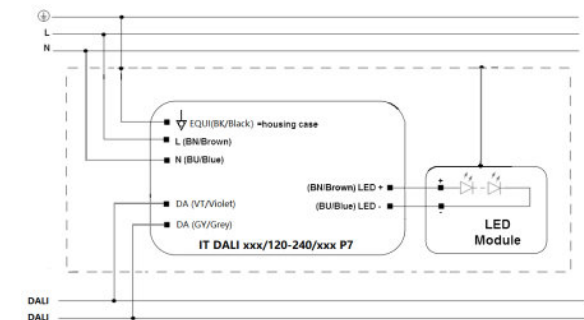
Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
IT DALI 20/120...240/1A0 P7	19-05-2023	4052899620308	Lead
IT DALI 40/120...240/1A0 P7	28-04-2023	4052899620315	Lead
IT DALI 75/120...240/1A0 P7	28-04-2023	4052899620322	Lead
IT DALI 110/120...240/1A0 P7	22-05-2023	4052899620339	Lead
IT DALI 150/120...240/1A0 P7	22-05-2023	4052899620346	Lead
IT DALI 200/120...240/1A0 P7	28-04-2023	4052899620353	Lead
IT DALI 240/120-240/1A0 P7	19-05-2023	4062172286633	Lead

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
IT DALI 20/120...240/1A0 P7	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	0214fb63-b7a2-4a36-8240-5f2a5e32fafb
IT DALI 40/120...240/1A0 P7	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	29622dc0-3136-4f2e-a937-11c6d0a4346b
IT DALI 75/120...240/1A0 P7	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	02962680-f861-4272-b069-79647830a722
IT DALI 110/120...240/1A0 P7	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	48a8586f-acc2-4e93-86c9-97154d1cccb3
IT DALI 150/120...240/1A0 P7	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	f3dd4c53-4cd0-4c3a-af7d-9658eefeeb10
IT DALI 200/120...240/1A0 P7	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	628b1d97-81b0-4994-9425-9be913510c47

Product family datasheet

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
IT DALI 240/120-240/1A0 P7	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	1f9b6468-25c2-4970-98ab-076b05936996

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	
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	
OUTPUT			
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	
DIMMING			
CABLE LENGTH	LED+LED-	< 2	m

IT DALI 20/120...240/1A0 P7, IT DALI 40/120...240/1A0 P7, IT DALI 75/120...240/1A0 P7, IT DALI 110/120...240/1A0 P7, IT DALI 150/120...240/1A0 P7, IT DALI 200/120...240/1A0 P7, IT DALI 240/120-240/1A0 P7

IT DALI 20/120...240/1A0 P7, IT DALI 40/120...240/1A0 P7, IT DALI 75/120...240/1A0 P7, IT DALI 110/120...240/1A0 P7, IT DALI 150/120...240/1A0 P7, IT DALI 200/120...240/1A0 P7, IT DALI 240/120-240/1A0 P7

Application advice

For more detailed application information and graphics please see product datasheet.

Additional product information

- 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 ($V_o = P_o / I_o$), 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 ($V_o = P_o / I_o$), 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 ($V_o = P_o / I_o$) 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 ceiling 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 $A=B=C=\text{Min.}10\text{mm}$, this clause does not apply when the LED driver is built-in the luminaires (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;

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File	
	User instruction User Instruction
	Certificates CB Certificate of OT DALI P7
	Certificates EAC Certificate of OT products
	Certificates ENEC Certificate of IT DALI P7

Product family datasheet

	Certificates CCC certificate
	Declarations of conformity IT DALI P7 CE 4287284 120822
	Declarations of conformity IT DALI P7 UK DoC 4287289 120822
	CAD data IT DALI 20 40 1A0 P7 STEP 300323
	Certificates CCC certificate
	Certificates CCC certificate (CH)
	Certificates CCC certificate
	CAD data IT DALI 75 1A0 P7 STEP 300323
	Certificates CCC certificate
	CAD data IT DALI 110 1A0 P7 STEP 300323
	Certificates CCC certificate of IT DALI 150 120-240 1A0 P7
	CAD data IT DALI 150 1A0 P7 STEP 300323
	Certificates CCC certificate of IT DALI 200 120-240 1A0 P7
	CAD data IT DALI 200 1A0 P7 STEP 300323
	CAD data IT DALI 240 1A0 P7 STEP 300323

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.

Product family datasheet

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899620308	IT DALI 20/120...240/1A0 P7	Shipping carton box 20	589 mm x 218 mm x 207 mm	26.58 dm ³	11654.00 g
4052899620315	IT DALI 40/120...240/1A0 P7	Shipping carton box 20	589 mm x 218 mm x 207 mm	26.58 dm ³	11654.00 g
4052899620322	IT DALI 75/120...240/1A0 P7	Shipping carton box 15	449 mm x 243 mm x 163 mm	17.78 dm ³	9793.00 g
4052899620339	IT DALI 110/120...240/1A0 P7	Shipping carton box 15	449 mm x 252 mm x 163 mm	18.44 dm ³	10412.00 g
4052899620346	IT DALI 150/120...240/1A0 P7	Shipping carton box 15	449 mm x 260 mm x 163 mm	19.03 dm ³	11180.00 g
4052899620353	IT DALI 200/120...240/1A0 P7	Shipping carton box 15	449 mm x 302 mm x 163 mm	22.10 dm ³	14314.00 g
4062172286633	IT DALI 240/120-240/1A0 P7	Shipping carton box 15	449 mm x 334 mm x 163 mm	24.44 dm ³	15854.00 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.

Data privacy

This OSRAM driver can be configured using the Tuner4TRONIC software. This requires registering on www.myosram.com and downloading the Tuner4TRONIC 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.

References / 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>

Disclaimer

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