TRIDONIC

LED Driver Compact fixed output

Driver LCI 15 W 700 mA IP20

₽_{tc}

165

141,6

Article number

24166313

Ordering data

LCI 015/0700 E020

Туре

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Packaging carton

40 pc(s).

TEC series

Product description

- Constant current LED Driver
- Universal input voltage range
- Constant output current 700 mA
- Strain relief
- Screw terminal
- 5-year guarantee

Properties

- High efficiency
- Low power loss
- Overtemperature protection
- Overload protection with automatic restart
- Short-circuit shutdown feature with automatic restart
- Protection class 2, SELV
- Type of protection IP20
- Casing: polycarbonate, white

Technical data

Rated supply voltage	120 – 240 V				
AC voltage range	108 – 264 V				
DC voltage range	120 – 240 V				
Rated current (at 230 V 50 Hz)	0.08 A				
Mains frequency	50 / 60 Hz				
Efficiency	> 75 %				
Max. input power	17 W				
λ (at 230 V 50 Hz)	> 0.95				
Output current tolerance®	± 8 %				
Output current ripple	± 35 %				
Max. repetitive output peak current	1,020 mA				
Max. non-repetitive output peak current	1,150 mA				
Max. output voltage®	30 V				
Starting time (output)	≤ 0.5 s				
Turn off time (output)	≤ 1 s				
Hold on time at power failure (Output)	10 ms				
Ambient temperature ta	-25 +50 °C				
Ambient temperature ta (at life-time 50,000 h)	-25 +40 °C				
Max. casing temperature tc	70 °C				
Storage temperature	-30 +85 °C				
Life-time	up to 50,000 h				
Dimensions LxWxH	165 x 43 x 30 mm				
Hole spacing D	142 mm				

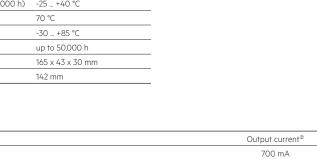
Specific technical data

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т	v	D	e

LCI 015/0700 E020

 $^{\textcircled{}}$ In non-load operation.

[®] Output current is mean value.



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Packaging pallet

2,000 pc(s).

Weight per pcs.

0.14 kg

Compact fixed output

Over temperature protection

Overload protection

exceeded.

850 °C passed.

Mounting of device

Max. torque for fixing: 0.5 Nm/M4

Standards

EN 55015 EN 61000-3-2 EN 61000-3-3 EN 61347-1 EN 61347-2-13 EN 61547 EN 62384

Installation instructions

Please note that LCI 015/0700 E020 complies with protection class II so special measures are needed if it is to be installed in protection class I applications / luminaires.

Please note the requirements set out in the document

 ${\sf LED_Betriebsgeraete_installationshinweis.pdf}$

(http://www.tridonic.com/com/de/technische-doku.asp).

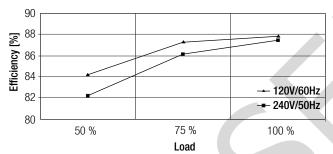
Maximum loading of automatic circuit breakers in relation to inrush current

Automatic circuit breaker type	C10	C13	C16	C20	B10	B13 B16		B20	Inrush current	
Installation Ø	1.5 mm ²	1.5 mm ²	1.5 mm ²	2.5 mm ²	1.5 mm ²	1.5 mm ²	1.5 mm ²	2.5 mm ²	l max	time
LCI 015/0700 E020	60	90	120	140	30	45	60	70	80 A	0.001 ms

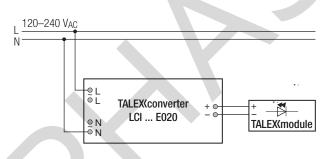
This are max. values calculated out of inrush current! Please consider not to exceed the maximum rated continuous current of the circuit breaker. Calculation uses typical values from ABB series \$200 as a reference.

Actual values may differ due to used circuit breaker types and installation environment.

Efficiency versus load



Wiring diagram



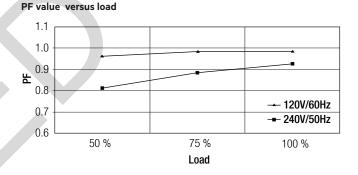
Installation instructions

The switching of LEDs on secondary side is not permitted.

Wiring guidelines

- All connections must be kept as short as possible to ensure good EMI behaviour.
- Mains leads should be kept apart from LED Driver and other leads (ideally 5 10 cm distance)
- Max. length of output wires is 2 m.
- Incorrect wiring can damage LED modules.
- To avoid the damage of the Driver, the wiring must be protected against short circuits to earth (sharp edged metal parts, metal cable clips, louver, etc.).

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Automatic shutdown of the LED Driver if the temperature limit is exceeded.

Automatic shutdown of the LED Driver if the maximum output voltage is

Automatic restart if the temperature falls below the limit.

Automatic restart if the output voltage is below the limit.

Glow wire test according to EN 60695-2-11

Wiring type and cross section

The wiring can be in stranded wires with ferrules or solid. For perfect function of the screw terminals the strip length should be 7.5–8.5 mm for the terminal.

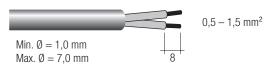
Input / Output terminal

PRI:



1,0 - 2,5 mm²

SEC:



LED Driver Compact fixed output

Insulation and electric strength testing of luminaires

Electronic devices can be damaged by high voltage. This has to be considered during the routine testing of the luminaires in production.

According to IEC 60598-1 Annex Q (informative only!) or ENEC 303-Annex A, each luminaire should be submitted to an insulation test with 500 V $_{DC}$ for 1 second. This test voltage should be connected between the interconnected phase and neutral terminals and the earth terminal. The insulation resistance must be at least $2M\Omega$.

As an alternative, IEC 60598-1 Annex Q describes a test of the electrical strength with 1500 V $_{AC}$ (or 1.414 x 1500 V $_{DC}$). To avoid damage to the electronic devices this test must not be conducted.

Maximum number of switching cycles

All LED Driver are tested with 50,000 switching cycles. The actually achieved number of switching cycles is significantly higher.

Additional information

Additional technical information at <u>www.tridonic.com</u> \rightarrow Technical Data

Guarantee conditions at <u>www.tridonic.com</u> \rightarrow Services

No warranty if device was opened.