IP20 SELV □ ♥ ♥ HI FN ( € K RoHS)

## Driver LCI 15 W 350 mA IP20

TEC series

## **Product description**

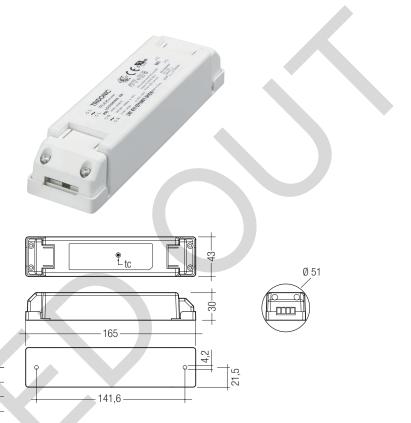
- Constant current LED Driver
- Universal input voltage range
- Constant output current 350 mA
- Strain relief
- Screw terminal
- 5-year guarantee

# **Properties**

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

# Technical data

120 – 240 V
108 – 264 V
120 – 240 V
0.08 A
50 / 60 Hz
> 75 %
17 W
0.91
± 8 %
± 32 %
500 mA
550 mA
48 V
≤ 0.5 s
≤1s
10 ms
-25 +50 °C
-25 +40 °C
70 °C
-30 +85 °C
up to 50,000 h
165 x 43 x 30 mm
142 mm



# Ordering data

Туре	Article number	Packaging carton	Packaging pallet	Weight per pcs.
LCI 015/0350 E020	24166312	40 pc(s).	2,000 pc(s).	0.14 ka

# Specific technical data

- p			
Туре	Output current®	Output voltage range	
LCI 015/0350 E020	350 mA	21 – 43 V	

<sup>1</sup> In non-load operation.

<sup>&</sup>lt;sup>②</sup> Output current is mean value.

### 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 015/0350 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 LED\_Betriebsgeraete\_installationshinweis.pdf

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

#### Over temperature protection

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

#### Overload protection

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

Automatic restart if the output voltage is below the limit.

#### Glow wire test according to EN 60695-2-11

850 °C passed.

#### Mounting of device

Max. torque for fixing: 0.5 Nm/M4

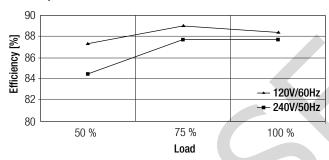
#### Maximum loading of automatic circuit breakers in relation to inrush current

Automatic circuit breaker type	C10	C13	C16	C20	B10	B13 B16		B20	Inrush current	
Installation Ø	1.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	l <sub>max</sub>	time
LCI 015/0350 E020	60	90	120	140	30	45	60	70	80 A	0.001 ms

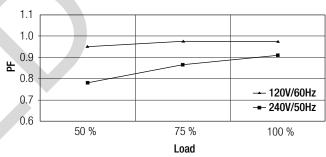
This are max. values calculated out of inrush current! Please consider not to exceed the maximum rated continuous current of the circuit breaker. Calculation uses typical values from ABB series S200 as a reference.

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

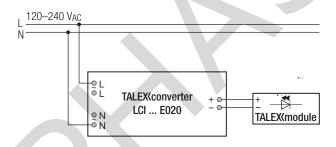
## Efficiency versus load



#### PF value versus load



# Wiring diagram



## Wiring type and cross section

Input / Output terminal

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.

# PRI:

#### PRI:



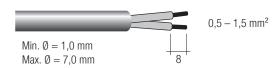
# **Installation instructions**The switching of LEDs on

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.).

#### SEC:



# 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  $_{\rm DC}$  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  $2\,{\rm M}\Omega.$ 

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  $\underline{www.tridonic.com} \rightarrow \text{Technical Data}$ 

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

No warranty if device was opened.



www.tridonic.com