IP20 **SELV** □ • ♥ • [H[**AL** (**€** RoHS]

Driver LCI 5 W 350 mA IP20

TEC series

Product description

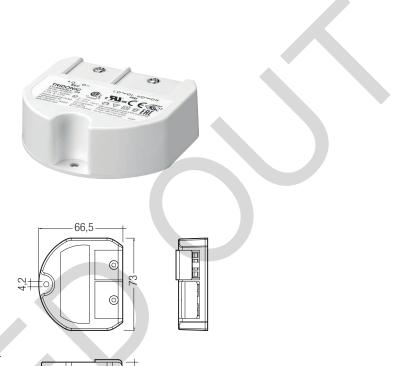
- Constant current LED Driver
- Universal input voltage range
- Constant output current 350 mA
- Strain relief
- Screw terminal
- 5-year guarantee

Properties

- 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				
Rated current (at 230 V 50 Hz)	0.08 A				
Mains frequency	50 / 60 Hz				
Efficiency	> 70 %				
Max. input power	7 W				
λ (at 230 V 50 Hz)	0.37				
Output current tolerance [®]	± 8 %				
Output current ripple	± 25 %				
Max. repetitive output peak current	470 mA				
Max. non-repetitive output peak current	470 mA				
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 to	75 ℃				
Storage temperature	-30 +85 °C				
Life-time	up to 50,000 h				
Dimensions LxWxH	73 x 67 x 23 mm				



Ordering data

Туре	Article number	Packaging carton	Packaging pallet	Weight per pc.
LCI 005/0350 E020	24166311	60 pc(s).	3.600 pc(s).	0.12 kg

Specific technical data

Туре	Output current®	Output voltage range
LCI 005/0350 E020	350 mA	8 – 15 V

Ausgangsstrom ist Mittelwert.

Standards

EN 55015

EN 61000-3-2

FN 61000-3-3

EN 61347-1

EN 61347-2-13

EN 61547

EN 62384

Installation instructions

Please note that LCI 005/0350 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_driver_installation_advise_en.pdf (http://www.tridonic.com/com/en/technical-docs.asp).

Mounting of device

Max. torque for fixing: 0.5 Nm/M4

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 60598-1 with increased temperature of 850 °C passed.

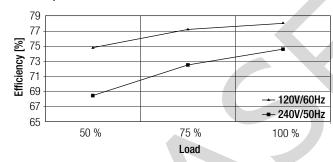
Maximum loading of automatic circuit breakers in relation to inrush current

Installation Ø 1.5 mm² 1.5 mm² 1.5 mm² 2.5 mm² 1.5 mm² 1.5 mm² 2.5 mm² 1.5 mm² 2.5 mm² I _{max} time LCI 005/0350 E020 16 24 32 37 8 12 16 18 149 A 0.014 ms	Automatic circuit breaker type	C10	C13	C16	C20	B10	B13	B16	B20	Inrush current	
LCI 005/0350 E020 16 24 32 37 8 12 16 18 149 A 0.014 ms	Installation Ø	1.5 mm ²	1.5 mm ²	1.5 mm ²	$2.5\mathrm{mm}^2$	1.5 mm ²	1.5 mm ²	1.5 mm ²	2.5 mm ²	l _{max}	time
	LCI 005/0350 E020	16	24	32	37	8	12	16	18	149 A	0.014 ms

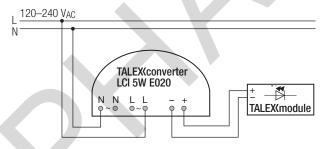
This are max. values calculated out of inrush current! Please consider not to exceed the maximum rated continuous current of the circuit breaker. Calculation uses typical values from ABB series S200 as a reference.

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

Efficiency versus load



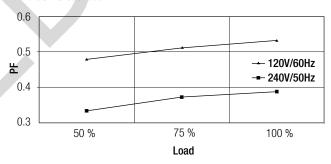
Wiring diagram



Installation instructions

The switching of LEDs on secondary side is not permitted.

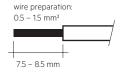
PF value versus load



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



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.).

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

Guarantee conditions at $\underline{www.tridonic.com} \rightarrow Services$

No warranty if device was opened.

