

IP20 SELV         

Driver LCI 30 W 700 mA IP20

TEC series

Product description

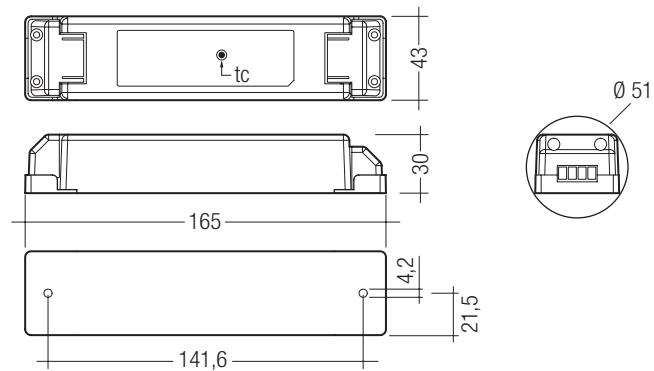
- Constant current LED Driver
- Universal input voltage range
- Constant output current 700 mA
- Strain relief
- Screw terminal

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)	0.16 A
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 80 %
Max. input power	35 W
λ (at 230 V 50 Hz)	> 0.95
Turn on time (output)	≤ 0.5 s
Turn off time (output)	≤ 1 s
Hold on time at power failure (Output)	10 ms
Output current tolerance [®]	± 8 %
Output current ripple	± 43 %
Max. repetitive output peak current	1,100 mA
Max. non-repetitive output peak current	1,100 mA
Max. output voltage [®]	48 V
Output power	30 W
Ambient temperature t_a	-25 ... +50 °C
Ambient temperature t_a (at life-time 50,000 h)	-25 ... +40 °C
Max. casing temperature t_c	75 °C
Storage temperature	-30 ... +85 °C
Dimensions LxWxH	165 x 43 x 30 mm
Hole spacing D	142 mm



Ordering data

Type	Article number	Packaging carton	Packaging pallet	Weight per pcs.
LCI 030/0700 E020	24166314	40 pc(s).	2,000 pc(s).	0.2 kg

Specific technical data

Type	Output current [®]	Output voltage range
LCI 030/0700 E020	700 mA	21 – 43 V

[®] In non-load operation.

[®] 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 030/0700 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
LED_driver_installation_advise.pdf
(<http://www.tridonic.com/com/en/technical-docs.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.

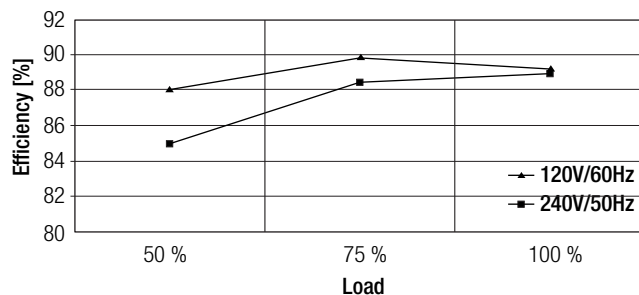
Glow wire test according to EN 60695-2-11

850 °C passed.

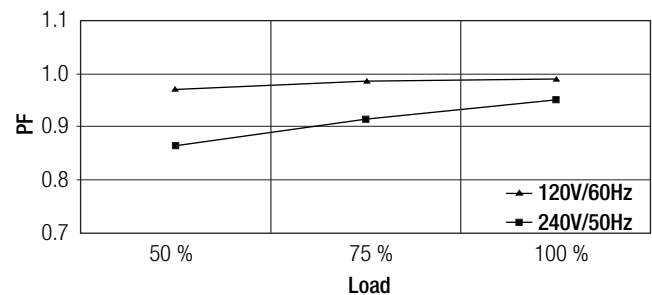
Maximum loading of automatic circuit breakers

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	I _{max}	time
LCI 030/0700 E020	60	90	120	140	30	45	60	70	80 A	0.001 ms

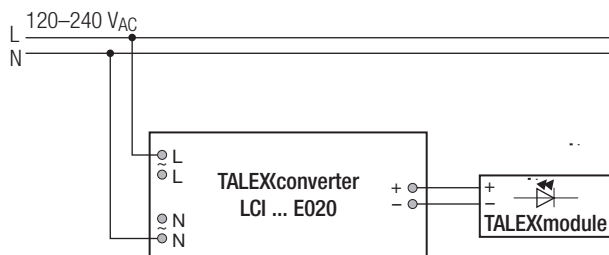
Efficiency versus load



PF value versus load



Wiring diagram



Installation instructions

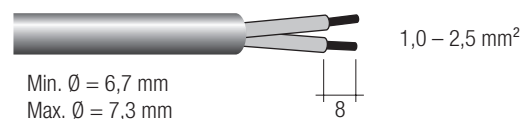
The switching of LEDs on secondary side is not permitted.

Wiring type and cross section

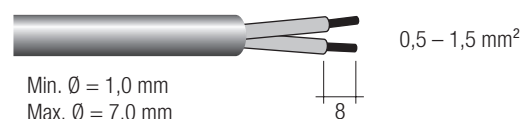
The wiring can be in stranded wires with ferrules or solid. For perfect function of the screw terminals the strip length should be 7.5-8.5 mm for the terminal.

Input / Output terminal

PRI:



SEC:



Isolation 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 isolation 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 isolation resistance must be at least 2 MΩ.

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.

Additional information

Additional technical information at www.tridonic.com → Technical Data

Guarantee conditions at www.tridonic.com → Services

No warranty if device was opened.