

IP20 SELV 

TALEXconverter LCBI 15 W 350/500/700 mA BASIC phase-cut Ip
BASIC series

Product description

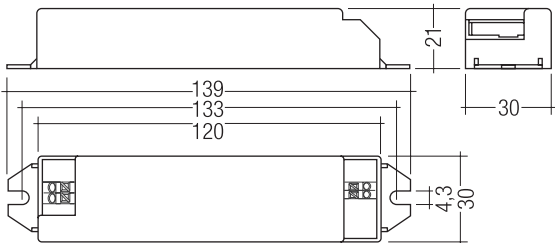
- Dimmable via phase-cut dimmers (leading & trailing edge)
- Nominal life of 50,000 h (at ta max. 50 °C with a failure rate of max. 0.2 % per 1,000 h)
- 350, 500 or 700 mA output current
- Push-in terminals
- Connecting cable, cable cross-section 0.5 – 1.5 mm²
- Output power 15/16 W
- SELV
- Type of protection IP20
- Output dimmed analogue (current amplitude)
- Dimming range typ. 5 to 100 % (depending on dimmer)

Properties

- Casing: polycarbonat, white
- Compact dimensions
- Overload protection
- Short-circuit protection
- No-load protection

Technical data

Rated supply voltage	220 – 240 V
Input voltage, AC	198 – 264 V
Mains frequency	50 / 60 Hz
Output current tolerance	± 7.5 %
Typical ripple current at full load	± 30 %
Power factor at full load ^①	0.99
Power factor at min. load ^②	0.97C
Turn on time (at 230 V, 50 Hz, full load)	≤ 0.1 s
Turn off time (at 230 V, 50 Hz, full load)	≤ 0.1 s
Hold on time at power failure (output)	0 s
Ambient temperature ta	-25 ... +50 °C
Ambient temperature ta (at lifetime 50,000 h)	50 °C
Max. casing temperature tc	85 °C
Storage temperature ts	-40 ... +85 °C
Dimensions L x W x H	139 x 30 x 21 mm



Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pc.
LCBI 15W 350mA BASIC Ip	89800255	25 pc(s).	600 pc(s).	0.053 kg
LCBI 15W 500mA BASIC Ip	89800256	25 pc(s).	600 pc(s).	0.053 kg
LCBI 15W 700mA BASIC Ip	89800257	25 pc(s).	600 pc(s).	0.053 kg



Standards, page 2

Wiring diagrams and installation examples, page 2

Specific technical data

Type	Typ. rated current (at 230 V, 50 Hz, full load)	Efficiency at full load ^①	Efficiency at min. load ^②	Output current	Output voltage range ^①	Max. output voltage ^②	Max. input power	Max. output power
LCBI 15W 350mA BASIC Ip	0.10 A	78 %	76 %	350 mA	21 – 46 V	51 V	21 W	16 W
LCBI 15W 500mA BASIC Ip	0.09 A	77 %	75 %	500 mA	13.5 – 30 V	34 V	20 W	15 W
LCBI 15W 700mA BASIC Ip	0.09 A	76 %	74 %	700 mA	10 – 21.5 V	24 V	20 W	15 W

^① Test result at 230 V, 50 Hz.

^② At failure mode.

Standards

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

Overload protection

If the output voltage range is exceeded the LED control gear reduces the LED output current. After elimination of the overload the nominal operation is restored automatically.

Short-circuit behaviour

In case of a short circuit on the secondary side (LED) the LED control gear switches into hic-cup mode. After the removal of the short-circuit fault the LED control gear will recover automatically.

No-load operation

The LED control gear works in constant current mode. In no-load operation there is the max. output voltage at the output (see page 1).

Installation instructions

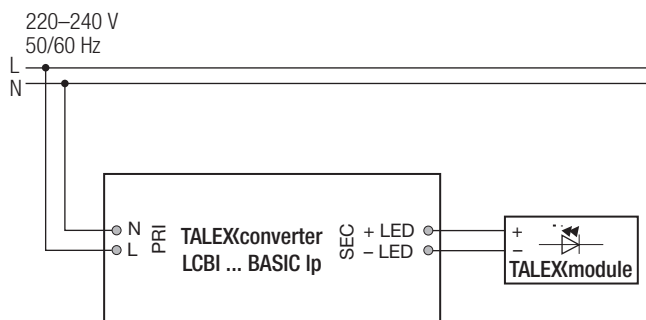
Note the requirements set out in the document
LED_driver_installation_advise.pdf
(<http://www.tridonic.com/com/en/technical-docs.asp>).

Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.

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
LCBI 15W 350mA BASIC Ip	50	65	80	100	50	65	80	100	1.7 A	40 µs
LCBI 15W 500mA BASIC Ip	50	65	80	100	50	65	80	100	1.7 A	40 µs
LCBI 15W 700mA BASIC Ip	50	65	80	100	50	65	80	100	1.7 A	40 µs

Wiring diagram

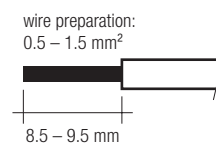


Glow wire test according to IEC 60695-2-11
960 °C passed.

Wiring type and cross section

The wiring can be stranded wires with ferrules or rigid wires with a cross section of 0.5 – 1.5 mm².

Strip 7.5 – 8.5 mm of insulation from the cables to ensure perfect operation of the push-wire terminals (WAGO 250).



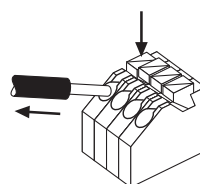
Wiring instructions

The secondary leads should be separated from the mains connections and wiring for good EMC performance.

Maximum lead length on secondary side is 0.3 m. For a good EMC performance keep the the LED wiring as short as possible.

Release of the wiring

Press down the "push button" and remove the cable from front.



Mounting of device

Max. torque for fixing: 0.5 Nm/M4