# 30 W Constant Voltage LED driver



### 30 W 220-240 VAC 50-60 Hz

- 24 V constant voltage output
- SELV protection for safety and flexibility in luminaires
- Open circuit, short circuit and overload protection
- Suitable for Class I and Class II luminaires
- Strain reliefs for independent use
- Suitable for use with LL1xCV-DA driver extension in DALI dimmable solutions





#### Mains Characteristics

Voltage range 198-264 VAC

Max mains current at full load 0.17 A

Frequency 50 - 60 Hz

Power factor at full load 0.95

THD at full load < 15 %

Input Power at no load < 0.5 W

Leakage current to earth < 0.7 mA

Tested surge protection 1 kV L-N, 2 kV L-GND (IEC 61000-4-5, performance criteria B)

Tested fast transient protection 2 kV (IEC 61000-4-4, performance criteria B)

### Load Output (SELV < 60 V)

Output voltage (U-OUT)24 VOutput voltage tolerance± 5 %Max output current (I-OUT)1.25 AMax output power30 WEfficiency, at full load86 %

## **Operating Conditions and Characteristics**

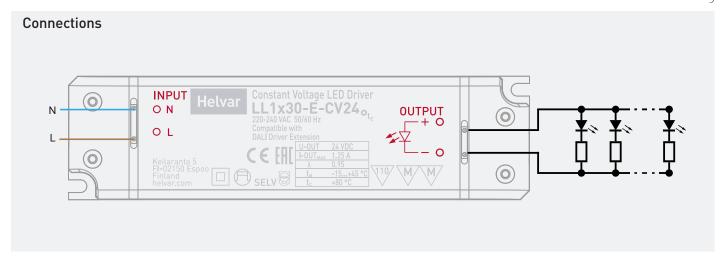
#### Connections and Mechanical Data

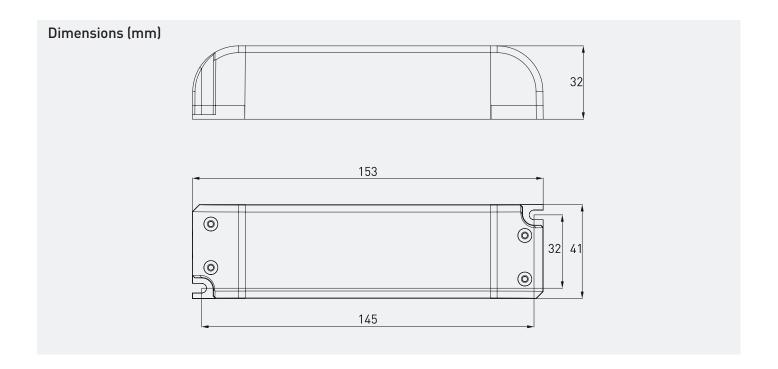
Wire size  $0.5 - 1.5 \text{ mm}^2$ 

Wire type Solid core and fine-stranded Wire insulation According to EN 60598

Maximum driver to LED wire length5mWeight150 gIP ratingIP20







# Quantity of drivers per miniature circuit breaker 16 A Type C

Based on I <sub>Cont</sub>	Based on I <sub>peak</sub>	Typ.inrush current	1/2 value time	Calculated energy
(pcs.)	(pcs.)	I <sub>peak</sub> (A)	Δt (μs)	I <sub>peak</sub> <sup>2</sup> Δt (A <sup>2</sup> s)
72	68	16	208	0.0386

Type-C MCB's with trip characteristics according to EN 60898 are recommended.

# Installation and conformity



LL1x30-E-CV24 LED driver is suited for either built-in and independent luminaire usage. In order to have safe and reliable LED driver operation, the LED luminaires will need to comply with the relevant standards and regulations (e.g. IEC/EN 60598-1). The LED luminaire shall be designed to adequately protect the LED driver from dust, moisture and pollution. The luminaire manufacturer is responsible for the correct choice and installation of the LED drivers according to the application and product datasheets. Operating conditions of the LED drivers may never exceed the specifications as per the product datasheets.

### Installation & operational considerations

### Maximum t<sub>c</sub> temperature:

- Reliable operation and lifetime is only guaranteed if the maximum
   t point temperature is not exceeded under the conditions of use
- Ensure that the tc point temperature does not exceed the specified value on the datasheet

#### Installation site:

• The general preferred installation position of LED drivers for independent use is to have the top cover facing upwards

### Conformity & standards

General and safety requirements	EN 61347-1
Particular safety requirements for DC or AC supplied electronic control gear for LED modules	EN 61347-2-13
Thermal protection class	EN61347, C5e
Mains current harmonics	EN 61000-3-2,
Limits for voltage fluctuations and flicker	EN 61000-3-3
Radio frequency interference	EN 55015
Immunity standard	EN 61547
Performance requirements	EN 62384
Compliant with relevant EU directives	

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