LL1x120-CV24



freedom in lighting

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1x120W Constant Voltage LED driver

- Open & short circuit protection
- Over voltage protection
- 24 V Constant voltage output
- Maximum 120 W load
- Suitable for Class I and Class II luminaires, as well as for independent use
- Double insulated enclosure
- Suitable for use with LL1xCV-DA driver extension for DALI dimmable solutions

120 W 220-240 VAC 50-60 Hz





INPUT O N LL1x120-CV24 OUTPUT ΟL **∓*⁺⁰ _0

Parallel output connection

Mains Characteristics

Voltage range	198-264 VAC				
Max mains current at full load 0.7 A					
Frequency	50 - 60 Hz				
Power factor	0.95				
Input Power at no load	0.5 W				

Load Output (SELV < 60 V)

Output voltage (U-OUT) 24 V Max output current (I-OUT) 5 A Max output power 120 W Efficiency, at full load, typical 0.88

Operating Conditions and Characteristics

Max.temperature at tc point +90 °C Ambient temperature range -20...+45 °C Storage temperature range -40...+80 °C Maximum relative humidity no condensation Life time

30 000h, at TC max (90 % survival rate)

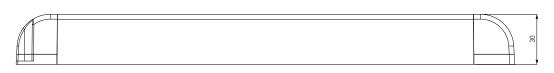
Connections and Mechanical Data

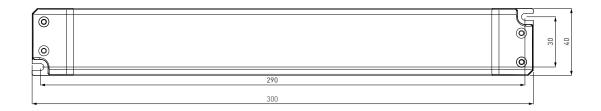
Wire size	0.5 – 1.5	– 1.5 mm ² id core and fine-stranded			
Wire type	solid cor				
Maximum driver to LED wire length	5m	m			
Weight	425 g				
IP rating	IP20				
Conformity					
Radio Frequency Interference, acc. to		EN 55015			
Immunity standard, acc. to		EN 61547			
General and safety requirements		EN 61347-1			
Particular safety requirements for d.c. or a.c. supplied					
electronic controlgear for LED modules, acc. to		EN 61347-2-13			
Performance requirements, acc to		EN 62384			
Mains current harmonics, acc. to		EN 61000-3-2			
Limits for Voltage Fluctuations and Flicker		EN 61000-3-3			

CE and SELV marked

Note: See page 2 for dimensions

Dimensions





Wiring & connectivity

LL1x120-E-CV24 LED driver is suited for either in-built 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. Specifications of the LED drivers may never exceed the operating conditions as per the product datasheets.

Wiring considerations

Wire type and cross section

• Please refer to datasheets connections & mechanical data

Wiring insulation

• According to recommendations in EN 60598

Maximum wire lengths

• Please refer to datasheets connections & mechanical data

Wire connections

• Please refer to datasheets connections diagram

Miniature Circuit Breakers (MCB)

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

Installation & operational considerations

Maximum tc temperature

• Reliable operation and lifetime is only guaranteed if the maximum tc point temperature is not exceeded under the conditions of use.

Installation site

- Ensure that the LED driver does not exceed temperature higher than specified on the product datasheets.
- The general preferred installation position of LED drivers is to have the top cover facing upwards.

Quantity of drivers per miniature circuit breaker 16 A Type C

Based on I _{Cont}	Based on I _{peak}	Typ.inrush	1/2 value	Calculated		
		current	time	energy		
(pcs.)	(pcs.)	I _{peak} (A)	Δt (µs)	l _{peak} ²∆t (A²s)		
20	55	12.8	308	0.0205		