



LEC B Super

The LEC B Super is a 3-phase intelligent lighting controller designed to control the voltage provided to lighting circuits. The LEC B Super reduces the voltage supplied to lighting elements by 25v and provides functions to control and operate the lights.

BENEFITS

- 18% - 25% - energy saving
- Full protection against overtemperature and overload
- Built-in display and keypad for easy programming
- Seamless integration with energy management systems (EMS)
- Compact and highly efficient
- No harmonic distortions, THD/EMI free

FEATURES

Automatic Bypass - Automatic and complete bypass via an internal contactor in case of over-temperature or overload, without disruption to the line or load.

Manual Bypass - The built-in manual bypass switch completely bypasses the LEC and supplies full net voltage to the lighting systems.

Ignition Sequence - Configurable ignition sequence enables igniting discharge lamps, from warm-up to full power, and then gradual reduction and stabilization of output voltage to the user defined level.

Re-ignition Sequence - Re-ignition is used in installation with multi-zone lighting. The LEC automatically switches to ignition mode when an increase of current is detected in one of the zones.

Operation Modes

Manual – manual operation via the built-in keypad

Remote – activates the LEC via an external command (timer or photocell)

Automatic – activates the LEC and the load at a configured time

Astro Clock – activates the LEC and the load according to time of sunrise/sunset

Real-Time Clock - The real-time clock enables LEC operation in automatic and astro-clock modes, which depend on date and time.

Astronomic Clock - An astronomic clock allows lights to be turned on and off according to the time of sunset and sunrise. This minimizes the operating hours of the lighting and helps save additional 5-10% of energy.

Time Windows

Four time windows that control the two different levels of voltage to the load at different times of the day.

Under Voltage Protection

The LEC B Super automatically supplies the net voltage if the net voltage drops below 215V.



ENERGY SAVING:
18%- 25%

LIGHTING SYSTEMS:
The LEC B Super is recommended for use with Fluorescent, PL, LPS and HPS* bulbs

APPLICATIONS:
Offices, parking garage, logistics centers, retail stores, factories, service stations, outdoor lighting

RANGE:
3x20A – 3x160A

* on circuits of 230V or higher





COMMUNICATION & CONTROL

Input	Dry contacts terminals to control LEC Start, Stop or Bypass mode. Can be connected to photocell, timer or control device.
Auxiliary Input	Dry contacts terminals for connecting auxiliary external alarm inputs (e.g. cabinet door open) to the LEC B Super.
Output	Dry contacts terminals for alarm state. Can be used for connecting an auxiliary device such as buzzer or flashing light.

TECHNICAL SPECIFICATIONS

INPUT VOLTAGE	3x230 VAC ± 10%	IP CLASS	IP20 (with covers)
OUTPUT VOLTAGE	25V reduction	CLIMATE CLASS	4K4H
FREQUENCY	50Hz/60Hz	HUMIDITY	0% - 90%
EFFICIENCY	99.5%	SURGE VOLTAGE	2000V
THD	< 1%	SURGE CURRENT	According to circuit breaker
AMBIENT TEMPERATURE	-20°C - +50°C	SHORT CIRCUIT CURRENT	According to circuit breaker

CATALOG NUMBER	I (A)	KVA	DIMENSIONS HxDxW (mm)	WEIGHT (kg)	Ht (mm)	Hb (mm)	POWER TERMINALS
0L25-S20200-380	3x20	14	440x265x275	17	26.5	85	16mm ²
0L25-S20300-380	3x30	21	440x265x275	20	26.5	85	16mm ²
0L25-S20500-380	3x50	35	440x265x275	25	26.5	85	16mm ²
0L25-S20800-380	3x80	55	615x275x400	37	26.5	26.5	35mm ²
0L25-S21000-380	3x100	69	615x330x400	51	26.5	155	70mm ²
0L25-S21250-380	3x125	86	615x330x400	51	26.5	155	70mm ²
0L25-S21600-380	3x160	110	780x305x590	80	26.5	190	70mm ²

PROTECTION

Over-temperature Protection

Thermo-switches that monitor the temperature of key components protect the LEC from over-temperature faults.

- A fan will be activated at 60°C.
- The LEC will automatically switch to bypass mode at 140°C and will supply net voltage to the load, without voltage interruption.

Overload Protection

The LEC has overload protection via circuit breakers that protect against overload and short circuit current.

Alarms & Warnings

The LEC B Super provides additional warnings and alarms regarding net conditions and LEC operation:

- Under voltage protection
- Over voltage protection
- Over current warning
- Over / under normalized current warning
- "No saving" warning

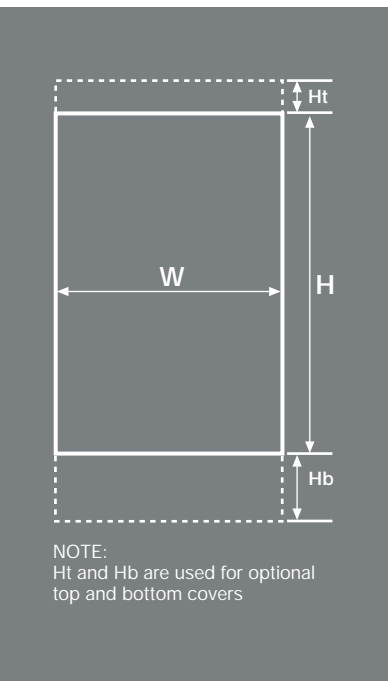
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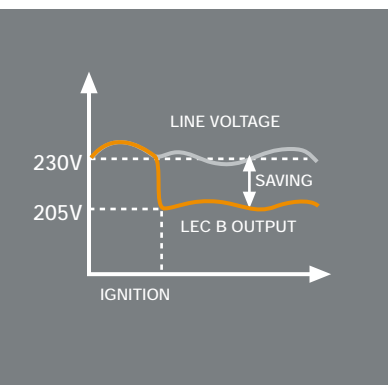
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NOTE:
 Ht and Hb are used for optional top and bottom covers



The LEC B Super is EMC approved CE marking

PowerSines Ltd. is ISO 9001:2000 and IQNet approved

