

LEC B Delta

The LEC B Delta is a 3-phase lighting controller designed to control the voltage provided to lighting elements. With the LEC B Delta, voltage supplied to the lighting circuits can be reduced by 20v/34v thus enabling energy saving.

BENEFITS

- 15% - 25% - energy saving
- Full protection against over-temperature and overload
- Seamless integration with energy management systems (EMS)
- Compact and highly efficient
- No harmonic distortions, THD/EMI free

FEATURES

The LEC B Delta is connected to the electrical circuits in Delta wiring but affects the Y voltage levels as well. The loads may be connected in Delta or Y, regardless of the LEC presence

Net Voltage

The LEC B Delta is compatible with the following voltage levels (Y/Delta voltages) - 127/220v, 120/208v, 110/190v. The voltage reduction is in direct proportion to the input voltage level - reducing 17-20v on the Y voltage levels or 30-34v.

Automatic Bypass

Automatic and complete bypass via an internal contactor in case of overtemperature, without disruption to the line or load.

Manual Bypass

A built-in manual bypass switch that completely bypasses the LEC and supplies full net voltage to the lighting systems. This is usually required for maintenance.

Ignition Sequence

The LEC B provides an ignition sequence that allows the lighting elements to warm up completely before reducing their voltage. The length of the ignition period is configured via a dip-switch.

Operation Modes

Automatic – automatically enters to the saving mode after a preset time interval using internal timer.

Remote – remote command for activating the saving mode via dry contacts.

LED Display

The LEC B Delta displays the status of the net voltage and the LEC output voltage via two LED located at the front of the device.

Under Voltage Protection

The LEC B Delta protects the lighting load against which will be too low for correct bulb operation. The under voltage threshold is determined according to a pre-set input voltage level.



ENERGY SAVING:
15%- 25%

LIGHTING SYSTEMS:
The LEC B Delta is recommended for use with Fluorescent, PL, LPS - Low Pressure bulbs.

APPLICATIONS:
Buildings & offices, parking lots, logistic centers and retail chains.

RANGE:
3x20A – 3x160A





COMMUNICATION & CONTROL

RS232/485	Integrated protocol for bi-directional data communication.
Input	Dry contacts terminals to control LEC Save, Bypass mode. Can be connected to a control device.
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	3x110-127 VAC \pm 10% (L-C) 3x190-220 VAC \pm 10% (L-L)	NEMA CLASS	NEMA1
OUTPUT VOLTAGE	17-20 VAC reduction (L-C) 30-34 VAC reduction (L-L)	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	-4°C - +122°F	SHORT CIRCUIT CURRENT	According to circuit breaker

CATALOG NUMBER	I (A)	KVA	H (inch)	D (inch)	W (inch)	WEIGHT (Lbs)	Ht (in)	Hb (in)
0L20-BD0200-220	3x20	14	17.16	10.43	10.83	43	1.04	3.35
0L20-BD0300-220	3x30	21	17.16	10.43	10.83	43	1.04	3.35
0L20-BD0500-220	3x50	35	17.16	10.43	10.83	53	1.04	3.35
0L20-BD0800-220	3x80	55	17.16	10.43	10.83	72	1.04	3.35
0L20-BD1000-220	3x100	69	24.1	12.3	15.6	115	1.04	6.1
0L20-BD1250-220	3x125	86	24.1	12.3	15.6	115	1.04	6.1
0L20-BD1600-220	3x160	110	30.7	12.1	23.1	175	1.04	7.5

PROTECTION

Over-temperature Protection

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

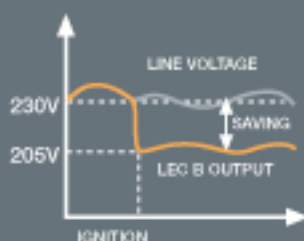
- A fan will be activated at 60°C.
- The LEC will automatically switch to bypass mode at 140°C and will supply net voltage to the load, without voltage interruption.

Overload Protection

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



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



The LEC B Delta has ETL UL - 916, EMC, AS/NZS 3100:2002 approvals

Power Electronics Systems (2006) Ltd. is ISO 9001:2000 and IQNet approved

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