

KLLC100 AND KLLC480 LEAD-LAG CONTROLLER

In response to customer demand, and with an increasing number of cooling applications requiring multiple air conditioners on a single cabinet, Kooltronic has developed the KLLC100 Lead-Lag Controller, an option for use with all Kooltronic air conditioners equipped with a 24V relay and

This true dual-stage device allows users to control the operation of up to two air conditioners based on either temperature or run-time. For users with fluctuating heat loads, the Lead-Lag Controller will bring the second air conditioner on-line as the heat load increases, and shuts it down as the demand for additional cooling diminishes. It can also be used to distribute the run-time over multiple units,

Applications using more than one air conditioner on a cabinet, either for extreme heat load or as a redundant system are becoming more prevalent. Adding a Lead-Lag Controller is an effective solution

The Controller features an LED display to indicate which air conditioner is on the run cycle and whether a unit is in the cooling or heating mode, if equipped with a heater. There is also an easy-toread display panel that provides options to tailor the control of the air conditioners to suit any application. Other standard features include a built-in thermostat with adjustable set-point, deadband

and sequencer. A universal mounting plate is supplied for simple installation within the cabinet. The

KLLC100 Lead-Lag Controller works with 115 and 230V units, and is supplied with a 115V wall outlet transformer. Kooltronic also offers the KLLC480, designed to work with 480V units. The KLLC480 comes with a multi-voltage field-wired transformer. NOTE: The KLLC100-480 is not RoHS compliant.

for users who need to maintain a critical cabinet temperature without interruption or failure.



APPROXIMATE WEIGHT

2.2 lbs. [1.0 kg]

SPECIFICATIONS

ELECTRICAL

INPUT Nominal Voltage: 18-30 VAC Frequency: 50/60Hz

KLLC100 Supplied with a 115V wall outlet transformer KLLC480 Supplied with multi-voltage field-wired transformer

OPERATIONAL

- HEAT/COOL STAGING First Stage Heat (H1): deadband setting above thermostat setpoint (C1) Second State Heat (H2): 2°F below H1 First Stage Cool (C1): equal to thermostat setpoint Second Stage Cool (C2): 2°F above C1 DEADBAND Adjustable: 2° to 20°F SHORT-CYCLE PROTECTION Stage 1: Three (3) minutes Stage 2: Four (4) minutes SETPOINT
 - ETPOINT Adjustable: 55 to 90°F @ C1

or 28 days, or fixed Manual ADVANCE pushbutton initializes

ADVANCE SEQUENCER

DESCRIPTION

external connection (option "D").

balancing the service life of the air conditioners.

sequence record MODE MEMORY

Pin selectable: Alternates every 1, 3, 7, 15

Rating: 2 amps per output @ nom. 24 VAC

- On power loss, system 'remembers' which previous mode it was in
- TEST MODES Thermistor bypass calibration mode jumper Accelerated test mode jumper
- DISPLAY LEDs

OUTPUT

Type: Triac

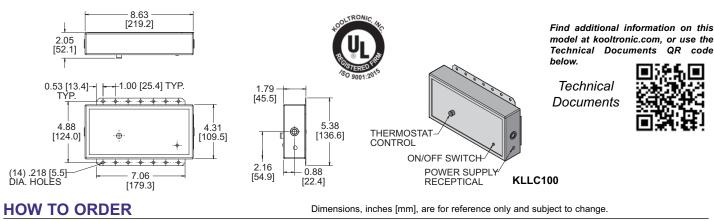
Number: Four (4)

Green LEDs: call for COOL (C1 & C2) Red LEDs: call for HEAT (H1 & H2) STANDARD FEATURES

True Dual Stage control Regulates 1 or 2 air conditioners Controls units based on temperature and run-time Second unit can heat or cool only when necessary Built-in thermostat (adjustable setpoint, deadband and sequencer) Compact housing Memory on power loss Enables load balancing and redundancy Manages heating and cooling of both units Provides Short-Cycle protection Includes status LEDs



DRAWINGS AND DIMENSIONS inches [metric]



Specify model number.

kllc100/480.qxd (11/2/20) (CDR: 20293)