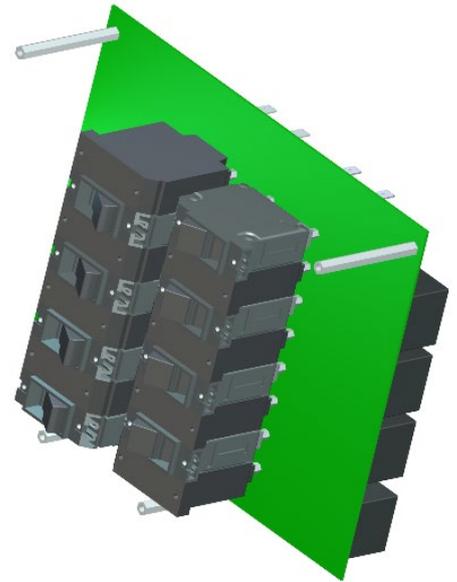


AC Power Distribution Module



Introduction

The E-Plex 439DMAC series has been designed to simplify electronic systems wiring by providing more control over AC loads. The module provides AC distribution and control for 110 and 220 single and split phase applications. Hydraulic magnetic circuit breakers provide traditional circuit protection. The 439DMAC supports a combination of single and double pole breakers. Manual override capabilities are provided through the use of a user defined default relay state with operation via traditional circuit breakers.

The 439DMAC can be combined with the 336PFM or the 442EMS for a robust AC energy management solution.

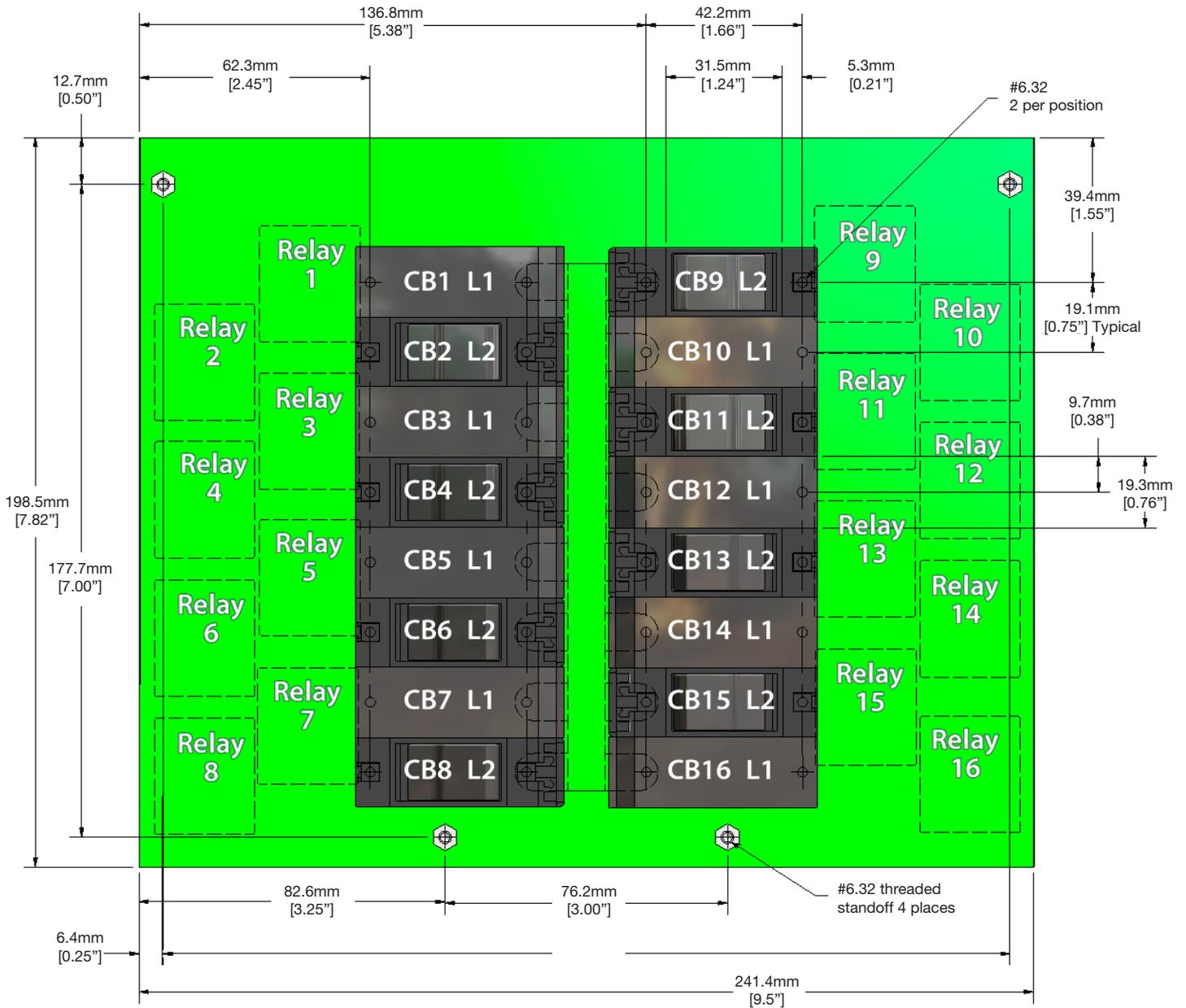
Key Features

- 75A max current per bus.
- 20A max current per channel.
- 16 channels maximum.
- Isolation between high and low voltage systems.
- Independent hydraulic magnetic circuit breakers
Single and double pole breakers available.
- Circuit breaker status monitoring.
- User defined default relay state with operation
via traditional circuit breakers providing manual
override capabilities.
- LEN value 2.

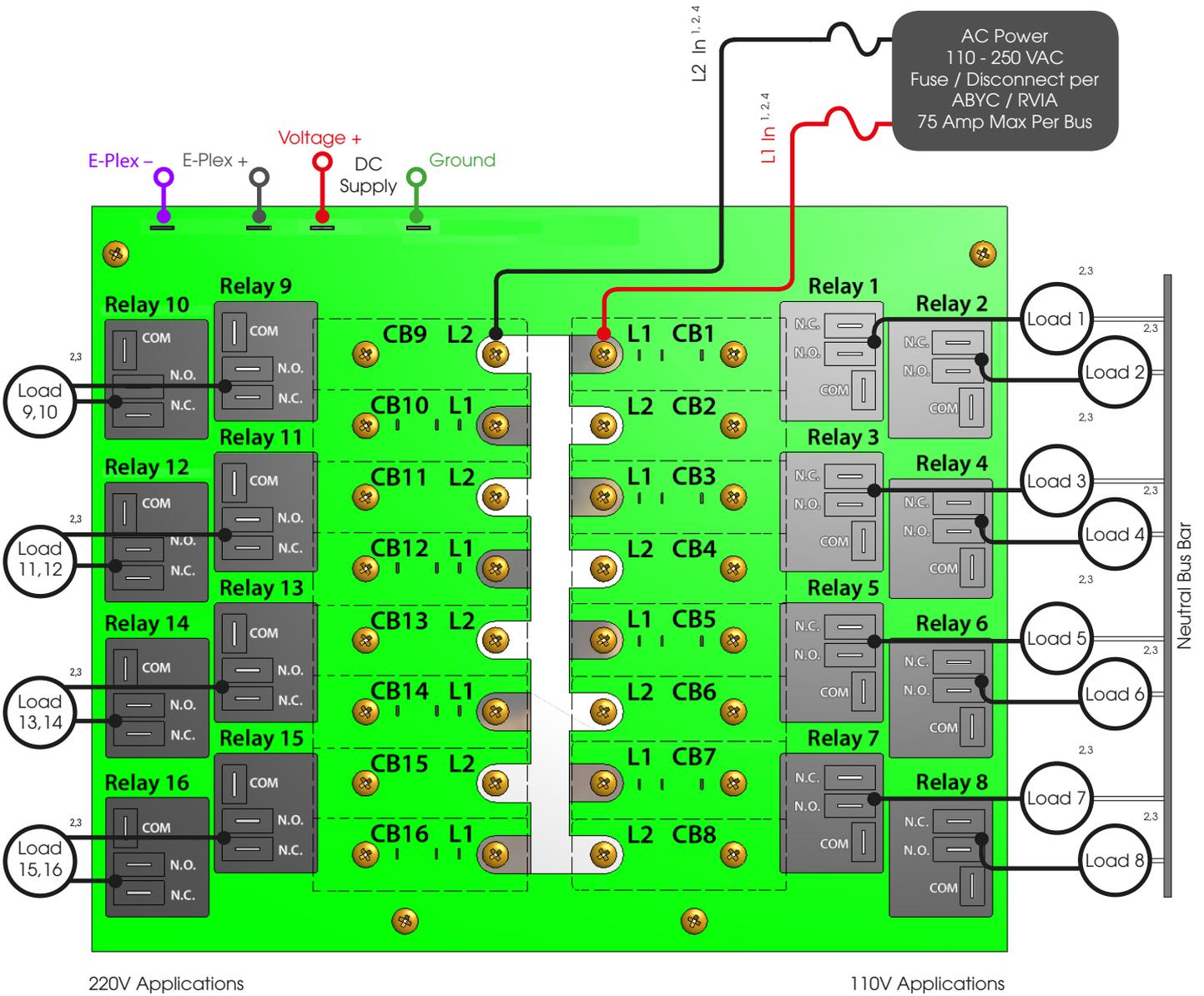
Design Specifications

- Vibration: Tested to Lloyds Registered approval
vibration test 2.
- Transient voltage suppression: EN6100-6-1.
- PCB characteristics: UL94V-0.
- Operating Temperature: -20°C to 60°C.
- Storage Temperature: -40°C to 85°C.
- Operating Humidity: 5% to 75% (non-condensing).

Front View - Physical Dimensions, Bus, Breaker and Relay Configuration



Rear View - Wiring, Bus, Breaker and Relay Configuration



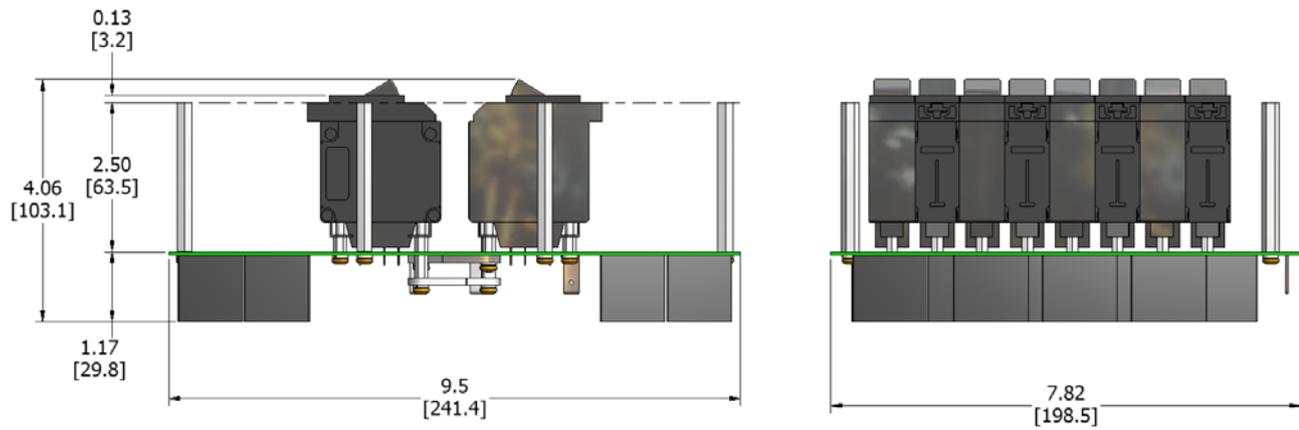
NOTE:

1. Do not over tighten, not to exceed 20 inch/lbs of torque.
2. L1 / L2 load bus can be tied together or operated independently.
3. Common relay output are circuit protected but not controlled by E-Plex
4. Separate ground & neutral bus bars may be required.

Connection Specifications

Description	Specifications
AC Operating Voltage	120/240 VAC per bus
AC Operating Current (per bus)	75A max
DC Operating Voltage	10/32 VDC
DC Operating Current	1.25A max

Module Outline Dimensions : (circuit breakers ordered separately)



Ordering Codes

Description	Part Number
439DMAC with crossed buss bars for split phase usage	EP-AC-KIT-DMAC-439-C-01
439DMAC with straight buss bars for single phase usage	EP-AC-KIT-DMAC-439-S-01

Optional Extras

Description	Part Number
Black Anodised Aluminium Faceplate	EP-AC-DMAC-439-PLATE
Ensto Enclosure Machined to accept 439DMAC	EP-AC-DMAC-439-ENCL

Circuit Breaker Ordering Specifications (circuit breakers ordered separately)

Single Pole Circuit Breakers Part Number	Current Rating	Double Pole Circuit Breakers Part Number
MCB-AP-1P-S-05A-EM0154	5A	MCB-AP-2P-S-05A-EM0155
MCB-AP-1P-S-10A-EM0141	10A	MCB-AP-2P-S-10A-EM0147
MCB-AP-1P-S-15A-EM0142	15A	MCB-AP-2P-S-15A-EM0148
MCB-AP-1P-S-20A-EM0143	20A	MCB-AP-2P-S-20A-EM0149
MCB-AP-1P-S-25A-EM0144	25A	MCB-AP-2P-S-25A-EM0150
MCB-AP-1P-S-30A-EM0145	30A	MCB-AP-2P-S-30A-EM0151
MCB-AP-1P-S-40A-EM0146	40A	MCB-AP-2P-S-40A-EM0152

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