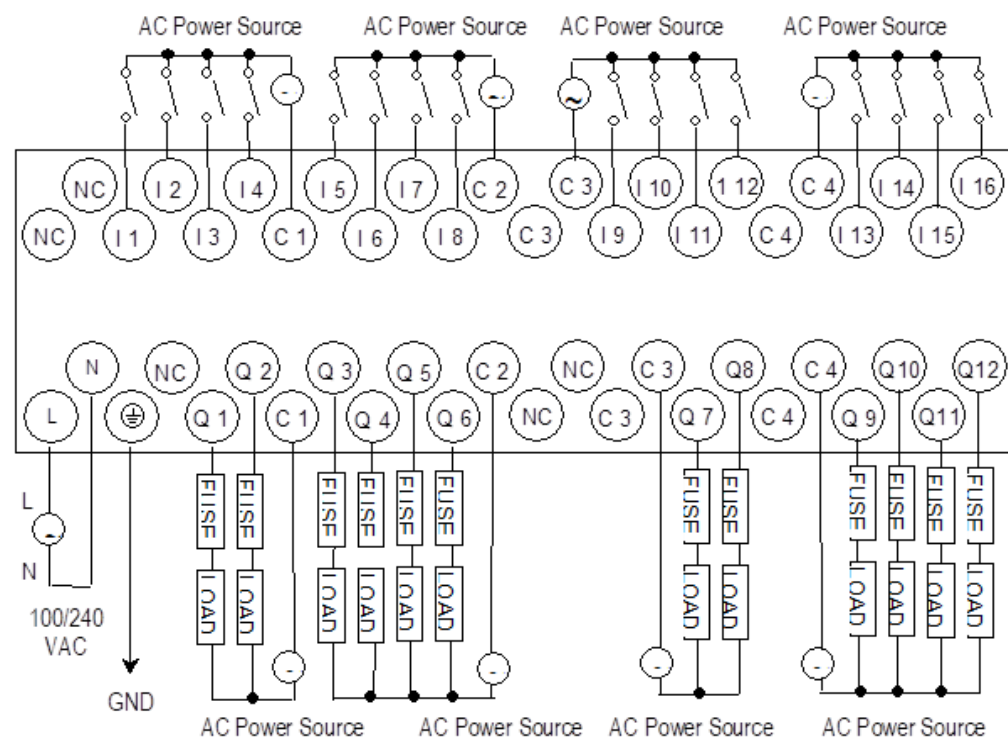


10.3.4 Wiring Diagram, IC200UEx210

Figure 80



10.4 IC200UEx211 28 Point Micro PLC Expansion Unit, (16) 24Vdc In, (12) Relay Out, 120/240Vac Power Supply

VersaMax Micro PLC Expansion Unit IC200UEx211 accepts sixteen DC inputs and provides twelve normally-open 2 Amp relay outputs. It uses 100Vac to 240Vac nominal input power.

10.4.1 DC Inputs

The sixteen configurable DC inputs can be used as positive or negative logic inputs. Inputs are compatible with a wide range of input devices, such as pushbuttons, limit switches, and electronic proximity switches. The +24Vdc supply can be used for input devices and to power the DC input circuits. The combination of input circuit current and external device current must not exceed 200 mA.

10.4.2 Relay Outputs (Q1 – Q12)

The twelve Form A (SPST-single pole single throw) normally open relay outputs can control many types of load devices such as motor starters, solenoids, and indicators. The switching capacity of each of these circuits is 2 amps. An external source of AC or DC power must be supplied to operate field devices.

10.4.3 Expansion Unit IC200UEx211 Specifications

Item	Description		
Inputs	Sixteen 24Vdc positive/negative logic input circuits		
Outputs	Twelve normally open 2 amp relay circuits		
+24Vdc Output Power Supply	200mA maximum (for input circuits and user devices)		
AC Power Specifications			
Range	100 -15% to 240 +10%Vac		
Frequency	50 -5% to 60 +5% Hz		
Hold-up	10ms at 85 to 100Vac, 20ms at 100 to 265Vac		
Inrush Current	30 Amp maximum at 200Vac, 40 Amp maximum at 265Vac		
Inrush Time	2 ms for 40Amp		
Input Current	0.20 Amp typical at 200Vac, 0.10 Amp typical at 100Vac		
Input Power Supply Rating	26 VA		
DC Input Specifications			
Number of Inputs	16		
Rated Input Voltage	24 volts DC		
Input Voltage Range	0 to 30 volts DC		
Input Current	7.5mA typical		
Input Resistance	2.8 kΩ		
Input Threshold Voltage	ON: 15Vdc minimum, OFF: 5Vdc maximum		
Input Threshold Current	ON: 4.5mA maximum, OFF: 1.5mA minimum		
Response Time	0.5 to 20ms configurable		
Isolation Voltage	1500V RMS field side to logic side, 500V RMS between groups		
Relay Output Specifications			
Operating Voltage	5 to 30Vdc or 5 to 250Vac		
Isolation	1500 V RMS between field side and logic side, 500 V RMS between groups		
Leakage Current	15 mA at 240Vac maximum		
Maximum UL Pilot Duty Rating	2 amps at 24Vdc and 240Vac		
Maximum Resistive Load Rating	2 amps at 24Vdc and 240Vac		
Minimum Load	10 mA		
Maximum Inrush	5 amps per half cycle		
Response Time	ON, OFF: 15 ms maximum		
Contact Life: Mechanical	20 x 10 ⁶ mechanical operations		
Contact Life: Electrical Voltage 240Vac, 120Vac, 24Vdc	Current: Resistive 2.0A	Current: Lamp and Solenoid 0.6A	Typical Operations 200,000