

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SCHNEIDER ELECTRIC

140DAI34000

16-POINT INDIVIDUALLY ISOLATED 24 V AC INPUT MODULE

Used with the applicable Modicon Quantum configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Modicon Quantum Hardware Reference 840 USE 100 00

140DAI34000 Quantum I/O 24 VAC IN Module

Overview

The AC Input 24 Vac 16x1 module accepts 24 Vac inputs.

Specifications

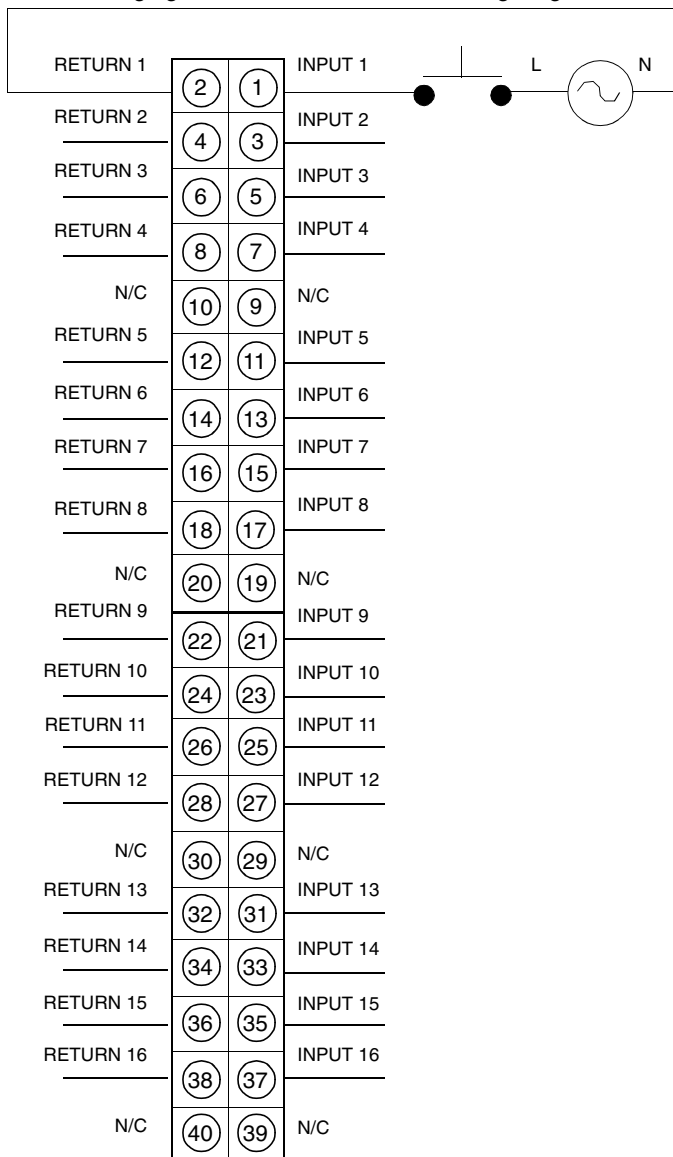
The following table shows the specifications for the DAI34000 24 VAC IN module.

Specifications	
Number of Input Points	16 Individually Isolated
LEDs	Active 1 ... 16 (Green) - Indicates point status
Required Addressing	1 Word In
Operating Voltages and Input Currents*	
50 Hz	ON: 14 ... 30 Vac (11.1 mA max) OFF: 0 ... 5 Vac
Typical Input Impedance	3.1 kΩ capacitive
60 Hz	ON: 12 ... 30 Vac (13.2 mA max) OFF: 0 ... 5 Vac
Typical Input impedance	2.6 kΩ capacitive
*Do not use outside the 47 ... 63 Hz range.	
Maximum Allowable Leakage Current from an External Device to be Recognized as an OFF Condition	1.9 mA
Absolute Maximum Input	
Continuous	30 Vac
10 s	32 Vac
1 cycle	50 Vac
Response	
OFF - ON	Min 4.9 ms., Max 0.75 line cycle
ON - OFF	Min 7.3 ms., Max 12.3 ms
Isolation	
Input to Input	1780 Vac for 1 minute
Input to Bus	1780 Vac for 1 minute
Fault Detection	None
Bus Current Required	180 mA
Power Dissipation	5.5 W max
External Power	Not required for this module
Fusing	
Internal	None
External	User discretion

Note: Input signals must be sinusoidal with less than 6% THD (Total Harmonic Distortion) and 63 Hz maximum frequency.

Wiring Diagram

The following figure shows the DAI34000 wiring diagram.

**Note:**

1. This module is not polarity sensitive.
2. N / C = Not Connected.