

AutoMate[®]/DCS-5000/AutoMax[®]
Dual A-C/D-C Input Module
120V (M/N 45C40)
240V (M/N 45C43)
24V (M/N 45C44)

Module Specifications

Module Location

- Plugged into an I/O Rail (M/N 45C11)

Ambient Conditions

- Operating Temperature (at the module): 32 to 140°F (0 to 60°C)
- Storage Temperature: -4 to 185°F (-20 to 85°C)
- Humidity: 5 to 90% (Non-Condensing)

Module Dimensions

- Height: 1¹³/₁₆ inches (2.1 cm)
- Width: 3 inches (7.6 cm)
- Depth: 6⁷/₈ inches (15.5 cm)
- Weight: 5 ounces (140 grams)

Input Circuit

- Number of Inputs: 2 Channels
- Response Time: 9.5ms at 60 Hz
- Turn-On Time: 2.0ms after threshold is exceeded
- Turn-Off Time: 19.0ms after threshold is removed
- Electrical Isolation: (1) 2500 V (RMS) isolation between the input circuit and the logic circuit
(2) 1000 V (RMS) channel to channel isolation
- Frequency: D-C or 48/60 Hz
- Maximum Short Circuit Power Source: 10 KVA

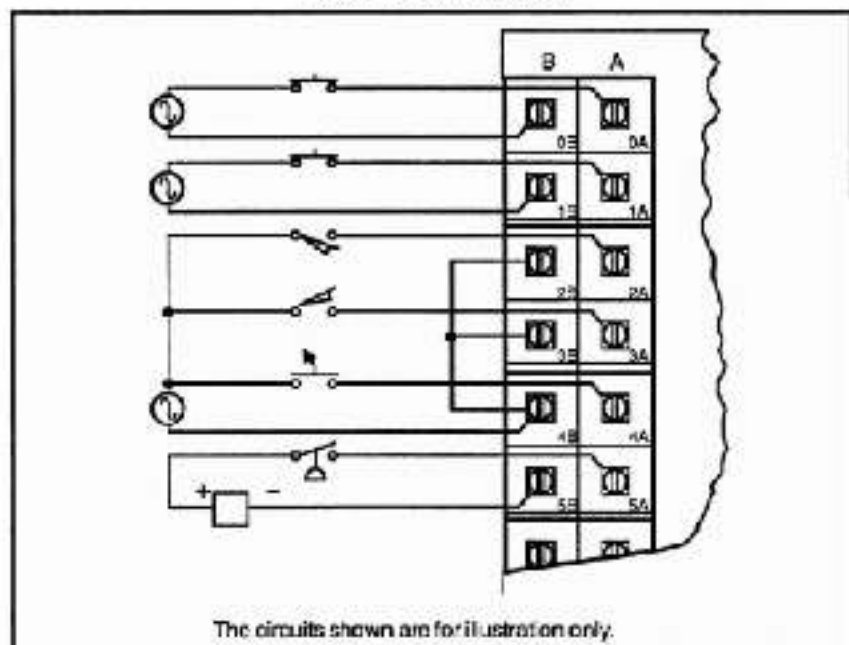
	M/N 45C40	M/N 45C43	M/N 45C44
Nominal A-C/D-C Voltages	115V	230V	24V - 28V
On Threshold A-C Voltages	85V	170V	18.5V
On Threshold D-C Voltages	108V	209V	20V
Off Threshold A-C Voltages	60V	120V	15.5V
Off Threshold D-C Voltages	83V	165V	14.5V
Maximum Input Voltage	130V	255V	40V
Impedance at Nominal Voltage	18.1K Ohms	52.8K Ohms	3.6K Ohms

Industrial
CONTROLS

Input Circuit

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Power Dissipation at Nominal Voltage (Watts per Input)	0.73W	1.0W	0.16W - 0.22W
Input Current at Nominal Voltage	8.3 mA	4.4 mA	6.5 mA - 7.8 mA
Maximum Off-State Current	3 mA	2 mA	1 mA
Maximum Wire Length	1000 Ft	500 Ft	1000 Ft

External Connections



This material is not intended to provide operating instructions. Appropriate Reliance Electric Industrial Company Instruction Manuals and precautions should be studied prior to installation, operation, or maintenance of the equipment.

For more detailed and complete information, please refer to the AutoMate/
DCS 5000/AutoMax Digital I/O Rails and Modules Instruction Manual (30-2)

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Suppl. Table 1. <https://doi.org/10.1371/journal.pone.0241291.s001>

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