



Reliance Electric 57C419

AutoMax 5-24 V DC Input Module

Product scope

- Acquires thirty-two 5-24 V DC sinking input points.
- Provides four programmable interrupt inputs with faster response.
- Separates field groups from logic common with documented high-voltage isolation.
- Transfers input states to the AutoMax processor over the rack backplane.

Manufacturer source

Rockwell Automation / Reliance Electric 5V-24V DC Input Module M/N 57C419, AMAX-IN230.

The enclosed record and retained manufacturer pages identify the exact product and explain its function, operating principle, application and critical matching requirements.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	Reliance Electric 57C419	

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Reliance Electric 57C419

AutoMax 5-24 V DC Input Module

Manufacturer-source product record

This record consolidates exact-model facts from the manufacturer references listed below. It is included to identify the ordering configuration before the retained source pages.

Input points	32, including four programmable interrupt inputs
Input range	2.7 to 24 V DC sinking inputs
Maximum turn-on time	3.3 ms normal inputs; 0.7 ms interrupt inputs
Isolation grouping	Four inputs per isolated common
Logic-to-field isolation	5000 V AC
Backplane power	+5 V at 700 mA
Maximum dissipation	6.8 W
Dimensions	11.75 x 1.25 x 7.375 in
Environment	0 to 60 deg C operating; 5 to 90% RH noncondensing

Official references

- Rockwell Automation / Reliance Electric 5V-24V DC Input Module M/N 57C419, AMAX-IN230.
- Official source: https://literature.rockwellautomation.com/idc/groups/literature/documents/in/amax-in230_-en-p.pdf

Only the exact configuration shown above is represented. Adjacent model variants, optional assemblies and system accessories are not treated as part of this ordering identity.

Function, operating principle and application

The notes below explain how this product is used and how its documented signal, power or control path operates. They remain limited to the manufacturer evidence for this model.

Input function

The module converts thirty-two low-voltage field states into rack-readable logic for AutoMax or DCS 5000 application tasks.

Operating principle

Each sinking input draws the documented field current when its device applies a valid DC level. Isolation separates the field groups from logic common, and the module transfers the resulting bit states across the rack backplane.

Interrupt behavior

Four inputs can be configured as interrupts with a shorter maximum response time. The processor can therefore react to selected fast events without waiting for the normal input scan path.

Typical use

The 5-24 V range suits proximity switches, contacts with an external source, machine-state signals and other low-voltage DC devices that match the sinking-input arrangement.

Wiring and replacement

Maintain the four-input common groups, field polarity, 57C375 cable/terminal arrangement and interrupt assignments. Isolate power before cable or module removal to prevent an unexpected input transition.

**5V-24V DC
Input Module
(M/N 57C419)**

Module Specifications

Ambient Conditions

- Storage temperature: -40C - 85C
- Operating temperature: 0C - 60C
- Humidity: 5-90% non-condensing

Maximum Module Power Dissipation

- 6.8 Watts

Dimensions

- Height: 11.75 inches
- Width: 1.25 inches
- Depth: 7.375 inches

System Power Requirements

- +5 volts: 700 ma

Input Circuit

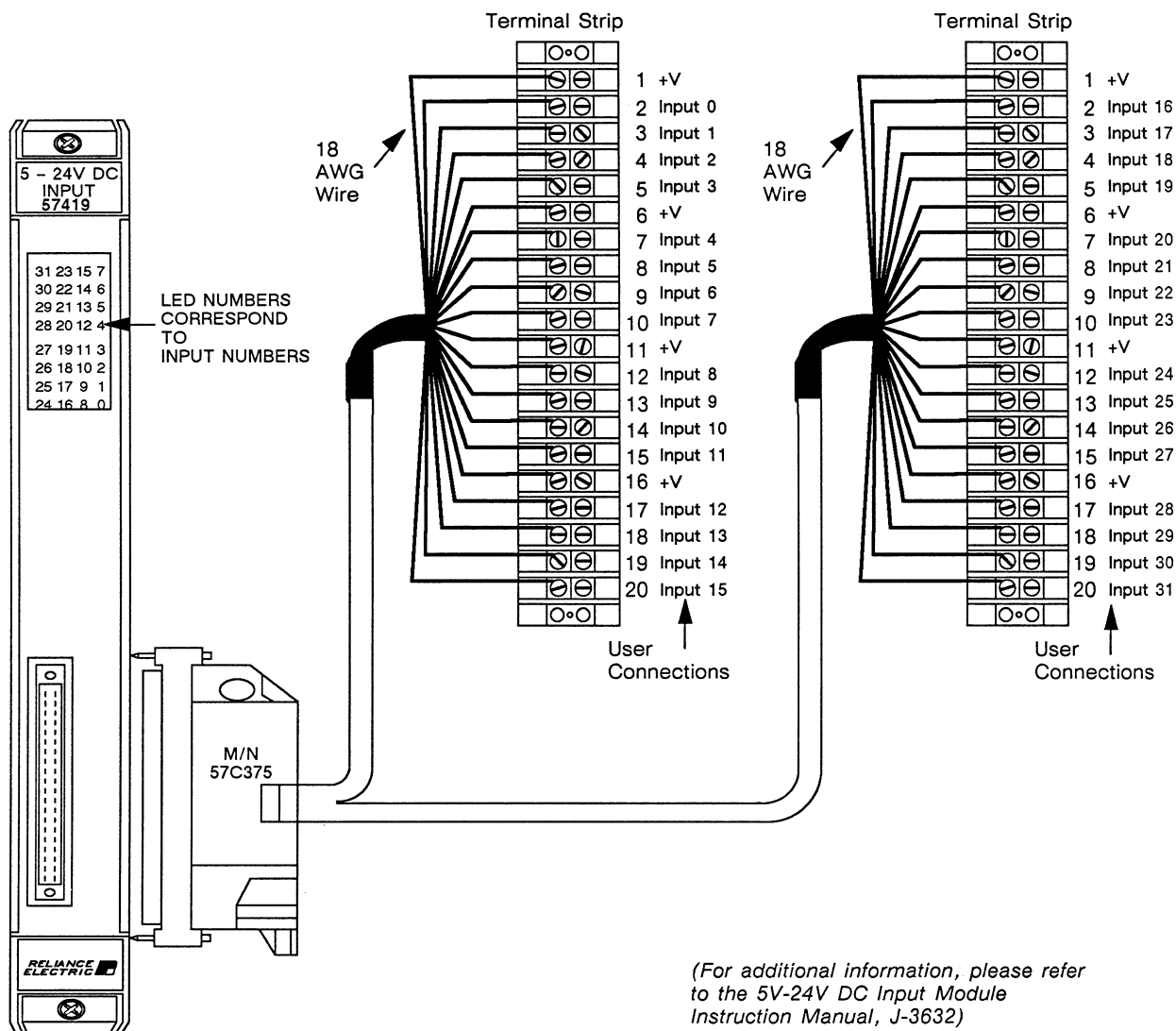
- Number of inputs: 32, 4 of which can be programmed as interrupts
- Maximum turn on time: 3.3 msec for normal inputs
0.7 msec for interrupt inputs
- Maximum voltage drop: 1.1 Volt at 5 volts DC
1.2 Volt at 24 volts DC
- Maximum ON current: 4.95 ma at 5 volts DC
23.70 ma at 24 volts DC
- Four inputs per isolated common
- 5000 volt isolation between logic common and input power

Reliance
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CONTROLS

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EXTERNAL CONNECTIONS



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