



505-4232

SIMATIC 505 32-Point 110 VAC Discrete Input Module

Product scope

- Provides thirty-two IEC Type 1 AC inputs in a single-wide module.
- Accepts 79–132 VAC as ON and 0–20 VAC as OFF.
- Divides the field terminals into four eight-channel return groups.

Manufacturer source

Siemens SIMATIC 505 Input/Output Modules User Manual, order number PPX:505-8105-2.

This web-optimized copy contains only verified information relevant to the stated ordering code.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	505-4232	

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505-4232 verified configuration

SIMATIC 505 32-Point 110 VAC Discrete Input Module

Exact product identity

Siemens 505-4232 is a single-wide SIMATIC TI505 input module with thirty-two IEC Type 1 channels for 100–115 VAC field signals.

Product classification

Manufacturer: Siemens

Product family: SIMATIC TI505 Input/Output Modules

Product type: 32-Point AC Discrete Input Module

Installation attention

505-4232 uses four separate eight-point AC return groups; isolate 110 VAC field power and verify every return before transferring the terminal block.

505-4232 technical specifications

Verified product data · section 1 of 2

Parameter	Verified value
Catalog number	505-4232
Module family	SIMATIC TI505
Module type	Discrete AC input
Input count	32
Module width	Single-wide
Input classification	IEC Type 1
Rated voltage	100 to 115 VAC
ON-state voltage	79 to 132 VAC
OFF-state voltage	0 to 20 VAC
ON-state input current	4 to 15 mA
Maximum OFF current	1.5 mA
Module delay	6 to 30 ms

505-4232 technical specifications

Verified product data · section 2 of 2

Parameter	Verified value
Base power	2.0 W
Operating frequency	47 to 63 Hz
Input groups	Four groups of eight
Group A	Inputs 1 to 8
Group B	Inputs 9 to 16
Group C	Inputs 17 to 24
Group D	Inputs 25 to 32
Field behavior	Sinking input connection

505-4232 application and integration guide

SIMATIC TI505 Input/Output Modules

Applications

- Collects 110 VAC contact and device status signals in legacy SIMATIC TI505 control systems.
- Consolidates thirty-two plant interlocks into a single-width controller I/O position.
- Supports discrete monitoring of motor controls, switchgear and industrial utility equipment.

Model-specific integration points

AC Input Levels

- Each channel recognizes an ON state between 79 and 132 VAC.
- The OFF-state voltage window extends from 0 to 20 VAC with a 1.5 mA maximum OFF current.
- Rated operation covers 100–115 VAC at 47 to 63 Hz.

Field Wiring

- Inputs 1–8, 9–16, 17–24 and 25–32 use returns AR, BR, CR and DR respectively.
- The documented field arrangement is a sinking AC input connection.
- Unused AC, BC, CC and DC positions are not signal terminals on the 32-point block.

Channel Diagnostics

- The front LED array gives a visual state indication for the module input points.
- Troubleshooting should compare terminal voltage with the specified ON, transition and OFF regions.
- A channel that never changes can indicate field wiring, return or controller-definition faults rather than a failed module.

505-4232 manufacturer source record

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Source used for verification

Siemens SIMATIC 505 Input/Output Modules User Manual, order number PPX:505-8105-2.

Manufacturer document location

https://cache.industry.siemens.com/dl/files/395/17515395/att_33338/v1/505-8105-2.pdf

Editorial scope

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