

Siemens 505-4232A

Complete Product Information

Siemens 505-4232A is a single-wide SIMATIC 505 discrete input module with 32 IEC Type 1 channels for 100 to 115 V AC field signals.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Provides 32 IEC Type 1 input channels.

Feature 2

Accepts a rated 100 to 115 V AC field supply.

Feature 3

Uses a single-wide SIMATIC 505 module format.

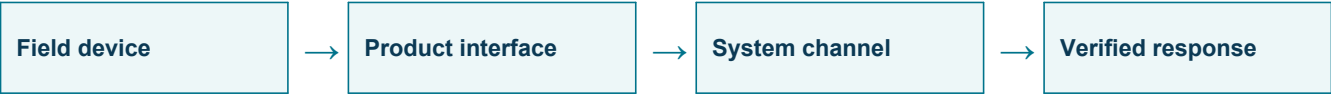
Feature 4

Operates with 47 to 63 Hz input power.

VERIFIED DATA SNAPSHOT

Input channels	32
Input type	IEC Type 1
Rated input	100 to 115 V AC
ON voltage range	79 to 132 V AC

SYSTEM RELATIONSHIP



APTERPOWER SALES TEAM
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Scan the approved WhatsApp code for model-specific support.



Technical profile

Verified technical values for the complete product string are arranged below for selection and engineering review.

Input channels	32
Input type	IEC Type 1
Rated input	100 to 115 V AC
ON voltage range	79 to 132 V AC
OFF voltage range	0 to 20 V AC
ON current	4 to 15 mA
Maximum OFF current	1.5 mA
Input delay	6 to 30 ms
Frequency	47 to 63 Hz
Module format	Single-wide

SELECTION ANCHORS

- Provides 32 IEC Type 1 input channels.
- Accepts a rated 100 to 115 V AC field supply.
- Uses a single-wide SIMATIC 505 module format.
- Operates with 47 to 63 Hz input power.

IMPORTANT NOTICE

Use the values as one matched configuration. Do not substitute a nearby ordering code without a separate check.

MANUFACTURER SOURCE CONTROLS

Manufacturer source	SIMATIC 505 Input/Output Modules User Manual, order number 505-8105-2
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

ADDITIONAL ENGINEERING CHECKS

How should Siemens 505-4232A wiring be transferred?	Label every channel and common, then reproduce the original point allocation on the replacement terminal block.
Which test completes Siemens 505-4232A commissioning?	Exercise each field state and verify the corresponding PLC point and interlock response.

System role and architecture



APPLICATION POINTS

Motor-control status Acquire contactor, starter and permissive states supplied at the documented AC level.	Machine interlocks Bring discrete guard, limit and readiness signals into the controller.
Process auxiliaries Monitor mains-level valve, heater and utility status contacts.	Rack modernization Retain a 32-channel AC input point map in an existing SIMATIC 505 station.

INTEGRATION RECORD

Identity	Record the complete marking and installed position.
Mechanical interface	Confirm mounting, support, clearance and connector engagement.
Electrical interface	Confirm signal path, shield, common and receiving-channel assignment.
Configuration	Retain the controlled channel settings and acceptance criteria.
Functional evidence	Record the expected static value, dynamic response and system status.

The 32-point ac input module belongs to the SIMATIC 505 modular control platform. Selection must preserve the documented signal role, terminal arrangement and rack interface.

ENGINEERING REVIEW QUESTIONS

How many inputs are provided by Siemens 505-4232A?	It provides 32 discrete input channels.
Which field voltage is rated for Siemens 505-4232A?	The rated field input is 100 to 115 V AC.
What input standard applies to Siemens 505-4232A?	The channels are specified as IEC Type 1 inputs.
Which voltage should register as ON for Siemens 505-4232A?	The documented ON range is 79 to 132 V AC.

Engineering checks and acceptance

PRODUCT PRECAUTIONS

- 01 Confirm that every field circuit is an input and uses the documented AC range.
- 02 De-energize field power before removing the terminal block.
- 03 Label all 32 channel conductors and common connections before disconnection.
- 04 Inspect the terminal block for heat damage, looseness or contamination.
- 05 Match the original channel allocation when transferring conductors.
- 06 Keep input wiring separated from noise-producing power conductors.
- 07 Check each point for the expected ON and OFF voltage before enabling logic.
- 08 Validate interlocks and channel status under a controlled machine test.

RELEASE EVIDENCE

Exact identity	Product marking and intended system position agree.
Interface condition	Mounting, connectors, terminals and cable routing are secure.
Signal response	The expected static and dynamic behavior has been observed.
Protection state	Channel status, alarms and controlled bypass state are restored.

IMPORTANT NOTICE

Treat Siemens 505-4232A as one complete execution and verify every field connection before the controlled system returns to service.

APPLICATION BOUNDARIES

Motor-control status	Acquire contactor, starter and permissive states supplied at the documented AC level.
Machine interlocks	Bring discrete guard, limit and readiness signals into the controller.
Process auxiliaries	Monitor mains-level valve, heater and utility status contacts.
Rack modernization	Retain a 32-channel AC input point map in an existing SIMATIC 505 station.

Technical questions and related models

MODEL-SPECIFIC QUESTIONS

How many inputs are provided by Siemens 505-4232A?	It provides 32 discrete input channels.
Which field voltage is rated for Siemens 505-4232A?	The rated field input is 100 to 115 V AC.
What input standard applies to Siemens 505-4232A?	The channels are specified as IEC Type 1 inputs.
Which voltage should register as ON for Siemens 505-4232A?	The documented ON range is 79 to 132 V AC.
Which voltage should remain OFF on Siemens 505-4232A?	The documented OFF range is 0 to 20 V AC.
What frequency range can Siemens 505-4232A accept?	The input operates from 47 to 63 Hz.

RELATED MODELS ON APTERPOWER

Siemens 6ES5434-4UA11	Related product reference. Review the complete ordering string before selection.
Siemens 6ES5420-4UA12	Related product reference. Compare the required interface and system position.
Siemens 6ES5312-5CA11	Related product reference. Confirm the execution independently for the intended task.

SOURCE AND SELECTION RECORD

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Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

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