

INDUSTRIAL AUTOMATION PRODUCT

505-4232

SIMATIC 505 thirty-two-point AC input module

thirty-two 100/115 VAC discrete input states

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	Siemens SIMATIC 505 I/O system
Part number	505-4232

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WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



2

Technical Specifications

Technical values below are limited to the named Siemens product record.

PARAMETER	TECHNICAL VALUE
Catalog number	505-4232
Input points	32
Module width	Single-wide
Input type	IEC Type 1 AC input
Rated input	100 to 115 V AC
Guaranteed ON range	79 to 132 V AC
Guaranteed OFF range	0 to 20 V AC
Line frequency	47 to 63 Hz
Input delay	6 to 30 ms
Module power	2 W from the base
Platform	SIMATIC 505 programmable controller I/O
Official manual	505-8105-2

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	SIMATIC 505 base and controller
Companion hardware	100/115 VAC field circuits
Field connection	documented input terminal assembly
Primary system function	Acquires thirty-two AC input points
Controlled acceptance duty	AC limit-switch acquisition

3

System Role and Architecture

thirty-two 100/115 VAC discrete input states

FUNCTION 1

Acquires thirty-two AC input points

FUNCTION 2

Meets the documented IEC Type 1 input characteristic

FUNCTION 3

Occupies one SIMATIC 505 module position

FUNCTION 4

Operates on 47 to 63 Hz supplies

Matched system components

- SIMATIC 505 base and controller
- 100/115 VAC field circuits
- documented input terminal assembly
- approved 505 I/O configuration

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	SIMATIC 505 base and controller
Companion hardware	100/115 VAC field circuits
Field connection	documented input terminal assembly
Primary system function	Acquires thirty-two AC input points
Controlled acceptance duty	AC limit-switch acquisition

4

Applications and Engineering Context

AC limit-switch acquisition

Acquires thirty-two AC input points

Contactor auxiliary-status monitoring

Meets the documented IEC Type 1 input characteristic

Machine interlock input bank

Occupies one SIMATIC 505 module position

SIMATIC 505 input-module replacement

Operates on 47 to 63 Hz supplies

TECHNICAL NOTE

Isolate every AC input group, label each conductor and common, verify the exact 505-4232 address assignment, and test ON/OFF thresholds under controlled conditions.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	505-4232 / 505-4232 recorded
Physical interface	SIMATIC 505 base and controller
Companion check	100/115 VAC field circuits
Functional proof	Acquires thirty-two AC input points
Application test	AC limit-switch acquisition

5

Engineering Precautions

1

Verify the complete 505-4232 marking and its assigned Siemens SIMATIC 505 I/O system position before work.

2

Place the connected ac limit-switch acquisition process in the approved maintenance state.

3

Isolate applicable power and thirty-two 100/115 vac discrete input states field energy before disconnection.

4

Record every connector, conductor, address, firmware and software identity before removal.

5

Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.

RELATED PRODUCTS ON APTER POWER

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MANUFACTURER SOURCE RECORD

Siemens SIMATIC 505 I/O Modules User Manual

505-8105-2

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