

505-4232

SIMATIC 505 thirty-two-point AC input module

thirty-two 100/115 VAC discrete input states

PRODUCT SNAPSHOT

BRAND

Siemens

FAMILY

Siemens SIMATIC 505 I/O system

PART

505-4232

PRODUCT TYPE

SIMATIC 505 thirty-two-point AC input modu

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PRODUCT OVERVIEW

thirty-two 100/115 VAC discrete input states

1

Acquires thirty-two AC input points

2

Meets the documented IEC Type 1 input characteristic

3

Occupies one SIMATIC 505 module position

4

Operates on 47 to 63 Hz supplies

SYSTEM COMPONENTS

SIMATIC 505 base and controller

100/115 VAC field circuits

documented input terminal assembly

approved 505 I/O configuration

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.

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Siemens 6RY1803 0CM20	Related industrial automation product	View Siemens 6RY1803 0CM20 page
Siemens C98043 A7107 L4	Related industrial automation product	View Siemens C98043 A7107 L4 page
Siemens 6RY1803 0DB02	Related industrial automation product	View Siemens 6RY1803 0DB02 page
Siemens 6SL3200 0SP06 0AA0	Related industrial automation product	View Siemens 6SL3200 0SP06 0AA0 page
Emerson PR6426 010 140	Related industrial automation product	View Emerson PR6426 010 140 page
Emerson PR6426 000 030	Related industrial automation product	View Emerson PR6426 000 030 page
Emerson PR6424 010 140	Related industrial automation product	View Emerson PR6424 010 140 page
Emerson PR6423 10R 010	Related industrial automation product	View Emerson PR6423 10R 010 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
- 6 Confirm the installed SIMATIC 505 base and controller and 100/115 VAC field circuits against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended contactor auxiliary-status monitoring function and retain the final test result.

ENGINEER FAQ

Q1 What input bank does the 505-4232 present to a SIMATIC 505 controller?

It is a single-wide, 32-point IEC Type 1 AC input module that maps thirty-two field states into the controller input image.

Q3 For 505-4232, what line-frequency range must the field supply meet?

The module is specified for 47 to 63 Hz AC input circuits; verify the source frequency before functional testing.

Q5 For 505-4232, what backplane load does the base supply for this module?

The official module data lists 2 W from the SIMATIC 505 base; confirm the installed base and system power budget.

Q7 For 505-4232, how should grouped AC conductors be isolated and identified?

De-energize every input group and common, label each conductor and terminal, and verify field voltage is absent before removing the terminal assembly.

Q2 For 505-4232, which voltage thresholds define an ON or OFF input?

For the documented 100 to 115 VAC service, the guaranteed ON range is 79 to 132 VAC and the guaranteed OFF range is 0 to 20 VAC.

Q4 For 505-4232, how quickly can a field change appear at the input module?

The documented input delay is 6 to 30 ms, which must be considered when testing limit switches, interlocks and sequence timing.

Q6 For 505-4232, why must all thirty-two addresses be recorded before replacement?

The module occupies one SIMATIC 505 position but represents 32 input points. Preserve the slot and complete point-to-terminal map to prevent address shifts.

Q8 What constitutes a controlled acceptance test for 505-4232?

Apply representative OFF and ON conditions within the published thresholds, confirm all 32 controller indications and verify the connected interlock logic before release.

SOURCE Siemens SIMATIC 505 I/O Modules User Manual | 505-8105-2

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