

Siemens 505-4632

Complete Product Information

Siemens 505-4632 is a single-wide SIMATIC 505 module with 32 non-latching AC outputs for 24 to 115 V AC field loads.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Provides 32 AC output channels.

Feature 2

Operates across 20 to 132 V AC at 47 to 63 Hz.

Feature 3

Uses an R-C surge suppressor on the output circuits.

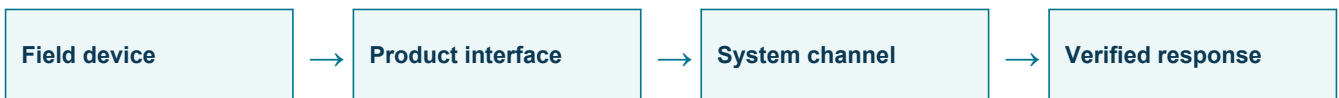
Feature 4

Uses a single-wide module format.

VERIFIED DATA SNAPSHOT

Output channels	32
Rated load supply	24 to 115 V AC
Operating range	20 to 132 V AC
Frequency	47 to 63 Hz

SYSTEM RELATIONSHIP



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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.

Output channels	32
Rated load supply	24 to 115 V AC
Operating range	20 to 132 V AC
Frequency	47 to 63 Hz
Minimum load	5 mA
Overload	5 A RMS for two cycles
ON-state drop	1.8 V at 0.5 A
Surge protection	R-C suppressor
Output behavior	Non-latching, unprotected
Module format	Single-wide

SELECTION ANCHORS

- Provides 32 AC output channels.
- Operates across 20 to 132 V AC at 47 to 63 Hz.
- Uses an R-C surge suppressor on the output circuits.
- Uses a single-wide module format.

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

What should be checked for AC coil loads on Siemens 505-4632?	Confirm steady-state current, inrush current, suppression and the required protective-device coordination.
How is Siemens 505-4632 accepted after installation?	Command every channel and verify the correct field load, indication and interlock behavior.

System role and architecture



APPLICATION POINTS

AC contactor control Switch approved AC relay or contactor coils under PLC logic.	Machine auxiliaries Operate lamps, small valves and other compatible AC loads.
Process sequencing Distribute mains-level output commands through the existing point map.	Rack maintenance Retain a 32-channel AC output function in a SIMATIC 505 installation.

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 output 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 AC outputs are available on Siemens 505-4632?	It provides 32 AC output channels.
Which voltage range can Siemens 505-4632 switch?	The operating range is 20 to 132 V AC, with a rated range of 24 to 115 V AC.
Which frequency range applies to Siemens 505-4632?	The outputs are specified for 47 to 63 Hz.
What minimum load is specified for Siemens 505-4632?	The minimum load is 5 mA.

Engineering checks and acceptance

PRODUCT PRECAUTIONS

- 01 Verify every connected load is compatible with the documented AC range.
- 02 Isolate rack and external load power before handling conductors.
- 03 Record channel, common and branch-protection assignments before removal.
- 04 Review steady-state and inrush current for each controlled load.
- 05 Retain the approved fuse and upstream protective-device coordination.
- 06 Separate AC output wiring from low-level signal wiring.
- 07 Check for unintended leakage-driven operation before enabling the process.
- 08 Command each point and verify the field load and PLC indication agree.

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 505-4632 as one complete execution and verify every field connection before the controlled system returns to service.

APPLICATION BOUNDARIES

AC contactor control	Switch approved AC relay or contactor coils under PLC logic.
Machine auxiliaries	Operate lamps, small valves and other compatible AC loads.
Process sequencing	Distribute mains-level output commands through the existing point map.
Rack maintenance	Retain a 32-channel AC output function in a SIMATIC 505 installation.

Technical questions and related models

MODEL-SPECIFIC QUESTIONS

How many AC outputs are available on Siemens 505-4632?	It provides 32 AC output channels.
Which voltage range can Siemens 505-4632 switch?	The operating range is 20 to 132 V AC, with a rated range of 24 to 115 V AC.
Which frequency range applies to Siemens 505-4632?	The outputs are specified for 47 to 63 Hz.
What minimum load is specified for Siemens 505-4632?	The minimum load is 5 mA.
Which surge network is used by Siemens 505-4632?	The output circuits use an R-C surge suppressor.
Are Siemens 505-4632 outputs protected against every field fault?	No. The outputs are documented as unprotected, so branch protection and load checks remain necessary.

RELATED MODELS ON APTERPOWER

Siemens 6DS1606-8BA	Related product reference. Review the complete ordering string before selection.
Siemens 6DS1412-8RR	Related product reference. Compare the required interface and system position.
Siemens 6DS1411-8RR	Related product reference. Confirm the execution independently for the intended task.

SOURCE AND SELECTION RECORD

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