

Siemens 505-4916A

Complete Product Information

Siemens 505-4916A is a single-wide SIMATIC 505 relay output module with 16 Form-A contact channels for AC or DC loads.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Provides 16 Form-A relay outputs.

Feature 2

Switches rated 24 to 230 V AC or 6 to 24 V DC loads.

Feature 3

Uses zero-leakage mechanical contacts.

Feature 4

Occupies a single-wide rack position.

VERIFIED DATA SNAPSHOT

Output channels	16
Contact form	Form A
Rated AC load	24 to 230 V AC
Rated DC load	6 to 24 V DC

SYSTEM RELATIONSHIP

Input condition



Module logic



Relay contact



Field circuit

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Technical profile

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

Output channels	16
Contact form	Form A
Rated AC load	24 to 230 V AC
Rated DC load	6 to 24 V DC
Operating range	20 to 265 V AC; 4.5 to 30 V DC
OFF-state leakage	0 mA
Contact resistance	250 milliohms
Switching delay	10 ms ON; 10 ms OFF
Maximum switching rate	6 Hz
Module format	Single-wide

SELECTION ANCHORS

- Provides 16 Form-A relay outputs.
- Switches rated 24 to 230 V AC or 6 to 24 V DC loads.
- Uses zero-leakage mechanical contacts.
- Occupies a single-wide rack position.

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 must be isolated before servicing Siemens 505-4916A?	Isolate rack power and every external AC or DC source connected to the contacts.
How is Siemens 505-4916A verified after wiring?	Exercise every relay and confirm continuity, the intended field response and the controller indication.

System role and architecture



APPLICATION POINTS

Mixed-voltage switching Control compatible AC and DC loads from one relay-output module.	Interposing control Provide dry-contact commands to external starters, relays or annunciators.
Low-frequency sequencing Switch field circuits whose duty remains within the 6 Hz limit.	Rack maintenance Restore a sixteen-point Form-A contact map in a SIMATIC 505 system.

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 16-point relay 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

Which contact type is used by Siemens 505-4916A?	It provides 16 Form-A relay contacts.
Can Siemens 505-4916A switch both AC and DC loads?	Yes. The documented rated ranges are 24 to 230 V AC and 6 to 24 V DC.
How much OFF-state leakage does Siemens 505-4916A have?	Mechanical relay contacts provide a documented leakage value of 0 mA.
What switching rate applies to Siemens 505-4916A?	The documented maximum switching rate is 6 Hz.

Engineering checks and acceptance

PRODUCT PRECAUTIONS

- 01 Confirm the complete 505-4916A marking before transferring any load.
- 02 Isolate every external AC and DC source connected to the relay contacts.
- 03 Record the contact pair, common and load supply for all sixteen points.
- 04 Check steady-state current, inrush and switching frequency against contact life requirements.
- 05 Retain field suppression for inductive AC or DC loads.
- 06 Do not use the module for a load that exceeds the approved contact rating.
- 07 Measure for unintended voltage before handling the terminal block.
- 08 Exercise every relay and confirm both electrical continuity and field response.

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 505-4916A as one complete execution and verify every field connection before the controlled system returns to service.

APPLICATION BOUNDARIES

Mixed-voltage switching	Control compatible AC and DC loads from one relay-output module.
Interposing control	Provide dry-contact commands to external starters, relays or annunciators.
Low-frequency sequencing	Switch field circuits whose duty remains within the 6 Hz limit.
Rack maintenance	Restore a sixteen-point Form-A contact map in a SIMATIC 505 system.

Technical questions and related models

MODEL-SPECIFIC QUESTIONS

Which contact type is used by Siemens 505-4916A?	It provides 16 Form-A relay contacts.
Can Siemens 505-4916A switch both AC and DC loads?	Yes. The documented rated ranges are 24 to 230 V AC and 6 to 24 V DC.
How much OFF-state leakage does Siemens 505-4916A have?	Mechanical relay contacts provide a documented leakage value of 0 mA.
What switching rate applies to Siemens 505-4916A?	The documented maximum switching rate is 6 Hz.
How quickly does Siemens 505-4916A change state?	The documented ON and OFF delays are 10 ms.
Why must load duty be reviewed for Siemens 505-4916A?	Relay contact life depends on voltage, current, inrush, suppression and switching frequency.

RELATED MODELS ON APTERPOWER

Siemens 6ES5312-3AB31	Related product reference. Review the complete ordering string before selection.
Siemens 6AV6640-0CA01-0AX0	Related product reference. Compare the required interface and system position.
Siemens 6ES5374-1KH21	Related product reference. Confirm the execution independently for the intended task.

SOURCE AND SELECTION RECORD

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