

Siemens 6ES5436-4UA11

High-Voltage AC Digital Input Module

Product scope

- Accepts sixteen 115–240 V AC status circuits directly at the S5 rack.
- Maintains two isolated eight-channel groups for high-voltage field organisation.
- Filters normal mains-related transitions with defined ON and OFF delays.

Manufacturer source

Exact-model technical record

Verified model-specific overview, function, operating principle, applications and technical data.

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Siemens 6ES5436-4UA11

High-Voltage AC Digital Input Module

Product overview

Siemens 6ES5436-4UA11 is a SIMATIC S5 digital input module for sixteen 115–240 V AC field signals. Two isolated groups of eight monitor high-voltage contact and auxiliary circuits at mains frequency.

6ES5436-4UA11 brings sixteen 115–240 V AC states into an S5 controller without intermediate low-voltage relays. Typical input current is approximately 15 mA at 115 V and 25 mA at 240 V.

The module evaluates field transitions up to 20 Hz with separate rise and fall delays that reject short mains disturbances. Two isolated groups allow the cabinet to organise independent high-voltage circuits.

At 240 V AC, no-fan diversity is limited and creepage, conductor insulation and terminal barriers require particular attention. The replacement must retain the original group commons and protective isolation from low-voltage wiring.

Technical specifications

Input channels	16
Isolated groups	2 groups of 8
Rated voltage	115 to 240 V AC
Frequency	47 to 63 Hz
Typical current at 115 V	15 mA
Typical current at 240 V	25 mA
Input frequency limit	20 Hz
Typical ON delay	5 ms
Typical OFF delay	20 ms
Input resistance	10 kΩ
Unshielded line length	600 m maximum
Shielded line length	1000 m maximum
Backplane voltage	5 V DC
Typical bus current	100 mA
Diversity with forced ventilation	100%
Diversity without fan at 240 V	75%
Diversity without fan at 35 °C or 115 V	100%
Width	40 mm
Height	255 mm
Depth	195 mm

6ES5436-4UA11 function and operating principle

Ordered configuration

This order number is the high-voltage member of the S5 436 AC input family.

System role

It eliminates separate interposing relays where high-voltage auxiliary contacts can be read directly.

Selection and installation

Cabinet segregation, diversity and terminal safety are central to selection because the module carries mains potential at its connector.

Functional path

- Accepts sixteen 115–240 V AC status circuits directly at the S5 rack.
- Maintains two isolated eight-channel groups for high-voltage field organisation.
- Filters normal mains-related transitions with defined ON and OFF delays.

Application scenarios

- Power distribution panels report breaker and contactor auxiliary states at 115 or 230 V AC.
- Large machines collect long-distance interlock contacts without converting each signal to 24 V DC.
- Legacy plant systems retain their established high-voltage control philosophy while servicing the S5 input stage.

6ES5436-4UA11 engineering checks

Environmental Ratings

- Full channel use is supported with the documented forced-ventilation arrangement.
- Without a fan, only 75 percent diversity is permitted at the 240 V upper rating.
- At 35 °C or 115 V AC, the documentation permits full diversity without forced cooling.

Safety & Compliance

- Field terminals carry hazardous AC voltage and require appropriate barriers and insulation.
- The two isolated groups must preserve separation from each other and from low-voltage circuits.
- Protective devices and safe-access procedures remain mandatory even when the controller is stopped.

Integration

- The 40 mm module occupies the documented SIMATIC S5 rack slot.
- Field circuits use the matching front connector and group-common arrangement.
- Cable lengths may reach 600 m unshielded or 1000 m shielded when installation conditions are satisfied.

Critical technical note

Treat all terminals of 6ES5436-4UA11 as hazardous mains circuits and maintain the required separation before accessing the front connector.

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