

SIMATIC S7-400 FUNCTION MODULES

Product Data Sheet

6ES7452-1AH00-0AE0

FM 452 cam controller module

FUNCTION	FAMILY	ORIGIN	WEIGHT
FM 452 cam controller module	SIMATIC S7-400 function modules	Germany	Confirm before dispatch

S7-400 6ES7452-1AH00-0AE0 is a FM 452 cam controller module for the SIMATIC S7-400 function modules. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Exact Article Code	6ES7452-1AH00-0AE0
Product Class	Fm 452 Cam Controller Module
Product Family	SIMATIC S7-400 function modules
Control Supply	24 V DC or system backplane
Backplane Interface	SIMATIC system bus
Programming	STEP 7 / TIA Portal
Process Image	Cyclic I/O exchange
Diagnostics	Module and channel status
Isolation	Galvanically isolated field circuits
Mounting	SIMATIC rail or rack

Protection Class	IP20 installed
Operating Temperature	0 to +60 °C class
Status Indication	Front-panel LEDs

- Protect generator excitation with Fm 452 process control: In the automation chain for the field circuits and voltage regulation, 6ES7452-1AH00-0AE0 operates in its approved product-family role as a FM 452 cam controller module. During load change, the system uses this function to adjust the assigned regulation path from operating feedback, helping it hold the electrical variable at its commanded target.
- Govern ingredient dosing with Fm 452 process control: Inside the batch vessels and dosing valves, 6ES7452-1AH00-0AE0 operates in its approved product-family role as a FM 452 cam controller module. During batch release, the system uses this function to align measured quantities with the active batch step, helping it hold dosing accuracy through the cycle.
- Manage filtration backwash during filter loading: Within the filter cells and backwash valves, 6ES7452-1AH00-0AE0 handles its designated signal or control duty as a FM 452 cam controller module. During filter loading, the system uses this function to sequence isolation, drain and rinse paths, helping it return the filter to production in a known state.

Match 6ES7452-1AH00-0AE0 to the installed SIMATIC S7-400 function modules, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

[Siemens official product documentation and manufacturer catalog](#)

<https://mall.industry.siemens.com/mall/en/WW/Catalog/Product/6ES7452-1AH00-0AE0>

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