6FM1680-1EA00

Industrial automation components

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Manufacturer	Siemens
Catalog number	6fm1680-1ea00
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Manufacturer	Siemens
Part Number	6FM1680-1EA00
Product Type	I/O Positioning Module Board
Compatible Series	SIMATIC S5-130/150
Number of Axes	Up to 3
Motor Type	Stepper or Servo
Encoder Type	Incremental Encoder
Position Resolution	1 µm
Interpolation Type	Linear and Circular
Operating Temperature Range	0°C to 60°C
Protection Rating	IP20
Power Supply	5V DC

Description

The Siemens 6FM1680-1EA00 is an I/O Positioning Module Board designed for the SIMATIC S5-130/150 series. This module enables precise multi-axis control, supporting up to three axes simultaneously. It is compatible with stepper or servo motors equipped with incremental encoders, offering a positioning resolution down to 1 µm when used with high-resolution encoders.

The module facilitates linear and circular interpolation, making it suitable for complex automation tasks such as CNC machining and robotic handling. It operates within a temperature range of 0°C to

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60°C and has a protection rating of IP20. The module is powered via a 5V DC supply and has a current consumption of 500mA (max).

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