

SIMADYN D EM13

Product Data Sheet

6DD1640-0AE0

EM13 analog, digital and encoder I/O board

BINARY INPUT CHANNELS	BINARY OUTPUT CHANNELS	A/D ANALOG INPUT CHANNELS	V/F/D ANALOG INPUT CHANNELS
16	12; 8 programmable and 4 fixed status	4	2

Siemens 6DD1640-0AE0 is the EM13 I/O board for SIMADYN D digital control systems. It provides analog measurement, analog signal output, incremental encoder acquisition and binary I/O for the configured drive-control task.

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VERIFIED TECHNICAL DATA

Binary input channels	16
Binary output channels	12; 8 programmable and 4 fixed status
A/D analog input channels	4
V/F/D analog input channels	2
Analog output channels	2
A/D input voltage range	±10 V
A/D input resistance	20 kohm differential
A/D input resolution	11 bits plus sign
V/F/D input resolution	14 bits plus sign
Analog output voltage range	±10 V

ADDITIONAL PRODUCT DATA

Maximum analog output current	10 mA
Maximum encoder pulse frequency	100 kHz
Rated binary input voltage	24 V DC
Rated binary output current	50 mA
Operating temperature	0 to 55 deg C with unforced ventilation

DOCUMENTED USE SETTINGS

Metal Production and Industrial Material Processing: Steel Production and Processing.

Pulp Production and Paper Manufacturing Processes: Pulp Production and Processing.

Industrial Manufacturing and Production Process Coordination: Manufacturing Process Automation.

SYSTEM COMPATIBILITY

6DD1640-0AE0 belongs to the SIMADYN D EM13 family and provides the documented em13 analog, digital and encoder i/o board function. Its binary input channels is 16; match this characteristic to the connected equipment and the project configuration.

PRODUCT EVIDENCE

Siemens SIMADYN D EM13 manufacturer documentation; applicable pages 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23