SIMATIC ET 200ISP

Product Data Sheet

6ES7138-7EC00-0AA0

AC distributed I/O power supply

RATED INPUT VOLTAGE	PERMITTED INPUT-VOLTAGE RANGE	PERMITTED LINE FREQUENCY	MAXIMUM INPUT CURRENT
120/230 V AC	**85 to 264 V AC**	**47 to 63 Hz**	**1.04 A**

Siemens 6ES7138-7EC00-0AA0 is the SIMATIC ET 200iSP PS 120/230 V AC power-supply module. It provides the required power-bus, interface-module and backplane-bus voltages through the designated UC power terminal modules and supports a redundant power-supply arrangement.

01 TECHNICAL DATA

Rated input voltage	120/230 V AC
Permitted input-voltage range	85 to 264 V AC
Permitted line frequency	47 to 63 Hz
Maximum input current	1.04 A
Maximum inrush current	28 A
Typical power-loss calculation	5 W + 1.2 x total electronics-module power loss
Maximum module power loss	21.3 W
Power-failure buffering	20 ms minimum for power bus, IM 152 and backplane bus
Redundancy capability	Supported
Diagnostic access	Via IM 152

02 ADDITIONAL PRODUCT DATA

Ingress protection	IP30
Operating temperature	-20 to +70 C; mounting-position derating applies
Primary-to-secondary isolation	Provided
Recommended external input protection	6 A miniature circuit breaker, characteristic C, per station
Compatible power terminal modules	TM-PS-A UC; TM-PS-B UC for redundancy

03 PRODUCT FUNCTION

The AC input accepts 85 to 264 V at 47 to 63 Hz, with a maximum input current of 1.04 A and an inrush limit of 28 A. The module provides at least 20 ms power-failure buffering; its available output current depends on input voltage, ambient temperature and mounting position.

04 SYSTEM COMPATIBILITY

Wire only with the power supply switched off and secure the terminal-module fastening screws before operating its sliding connection mechanism. Siemens specifies a grounding/equipotential-bonding conductor of at least 4 mm2. Apply the documented 6 A characteristic-C input protection per station.

05 REFERENCE

Siemens 6ES7138-7EC00-0AA0 Data Sheet, 2026-11-06, pp.1-2; ET200iSP A5E00247483-07, pp.113-114 and 224-226.

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