SIMATIC ET 200PRO PROFISAFE

Product Data Sheet

6ES7148-4FS00-0AB0

Fail-safe F-switch Electronic Module

FAIL-SAFE DIGITAL INPUTS	FAIL-SAFE PP-SWITCHING OUTPUTS	SWITCHED BACKPLANE RAILS	RATED DC SUPPLY
2	**3**	**2L+, F0 and F1**	**24 V**

Siemens 6ES7148-4FS00-0AB0 is the ET 200pro fail-safe F-switch electronic module for PROFIsafe configurations. It combines two fail-safe digital inputs with three fail-safe PP-switching outputs that switch the backplane rails 2L+, F0 and F1. The module uses a rated 24 V DC supply.

01 TECHNICAL DATA

Fail-safe digital inputs	2
Fail-safe PP-switching outputs	3
Switched backplane rails	2L+, F0 and F1
Rated DC supply	24 V
Maximum 1L+ supply current	50 mA
Typical unloaded 2L+ current	25 mA
Maximum 3.3 V backplane current	40 mA
Typical power loss	3 W
Typical signal-one input current	3.5 mA
Maximum output group current to 55 degrees C	6 A

02 ADDITIONAL PRODUCT DATA

Highest achievable performance level	PL e, ISO 13849-1
Highest achievable safety integrity level	SIL 3, IEC 61508
Communication safety protocol	PROFIsafe
Output short-circuit protection	Provided

03 PRODUCT FUNCTION

The manufacturer specifies a maximum 6 A output-group current in all mounting positions up to 55 degrees C. Typical power loss is 3 W, with separate consumption specified for 1L+, 2L+ and the 3.3 V backplane. The highest achievable safety capability is SIL 3 and PL e when the complete configured safety function satisfies the applicable installation and validation requirements.

04 SYSTEM COMPATIBILITY

Provide the 24 V DC supplies and budget 1L+, 2L+ and backplane consumption separately. Keep the total output group within 6 A at up to 55 degrees C. Connect the station components and field circuits according to the ET 200pro fail-safe wiring and power-group instructions.

05 REFERENCE

Siemens 6ES7148-4FS00-0AB0 exact-model Data Sheet, 28 August 2026, pages 1-2.

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