

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7138-4CF03-0AB0

ET 200S Fail-Safe Power Module



TYPE	SUPPLY	OUTPUTS	PROFILE
PM-E F pm	24 V DC	2 DO + 1 relay	PROFIsafe

Siemens 6ES7138-4CF03-0AB0 is the ET 200S PM-E F pm DC24V PROFIsafe power module. It combines relay switching of the P1/P2 voltage buses with two additional P/M-switching fail-safe semiconductor outputs for suitable 24 V DC loads.

01

VERIFIED TECHNICAL INFORMATION

Output arrangement	2 P/M-switching semiconductor outputs plus 1 P/M-switching relay output for P1/P2
Rated load supply	24 V DC; permissible range 20.4-28.8 V DC; no reverse-polarity protection
Semiconductor output current	2 A rated per channel; permitted on-state range 20 mA to 2.4 A
Total-current derating	Horizontal: 10 A up to 40 °C, 7 A up to 55 °C, 6 A up to 60 °C; vertical: 6 A up to 40 °C
Relay protection	No output short-circuit protection; external 10 A circuit breaker with B characteristic required
Compatible terminal modules	TM-P30S44-A0 or TM-P30C44-A0
Process-image allocation	5 input bytes and 5 output bytes; access only the documented useful-data bits

Exact-model Siemens sources are identified in the accompanying manufacturer reference. This independently prepared summary does not replace safety engineering or commissioning procedures.

02 TECHNICAL INFORMATION CONTINUED

PROFIsafe destination address	1-1022; physical DIP setting must match HW Config and satisfy network uniqueness rules
F monitoring time	10-10,000 ms; default 150 ms
Output readback time	Selectable 1, 5, 10, 50, 100, 200 or 400 ms per electronic output; default 1 ms; load and interference restrictions apply
Maximum output cable length	200 m, shielded or unshielded; route P and M signal lines together in one cable or sheathed cable
Semiconductor load limits	12 ohm to 1 kohm load resistance; lamp load maximum 10 W
Module supply consumption	Backplane maximum 28 mA; L+ typical 100 mA without load; typical power loss 4 W
Isolation arrangement	Outputs isolated from backplane; no isolation between channels or from their power supply
Operational diagnostics	SF red LED, load-supply and output-status green LEDs; diagnostic functions are not safety-related signals

03 SOURCE AND CONFIGURATION CHECKS

The module supports safety-related shutdown within a correctly engineered F-system. Selection must account for the intended load group, relay switching interval, external protection, temperature-dependent current limits and safety-program validation; its maximum attainable safety class is not an unconditional rating for the complete machine.

The 2013 original diagrams use inconsistent P1/P2 polarity labels. This package provides product characteristics and later safety/approval updates only, not installation drawings or a commissioning manual. Obtain manufacturer clarification before wiring. Do not use the original historical safety values without the appended 2015 and 2022 information.

Confirm the supplied hardware, firmware and approved project documentation. Product net mass is not shipment gross weight. Installation and return to service require qualified personnel.

[Siemens official exact-model product reference](#)