

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7138-4CF02-0AB0

ET 200S Fail-Safe Power and Output Module



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

Siemens 6ES7138-4CF02-0AB0 is the PM-E F pm DC24V PROFIsafe power module for SIMATIC ET 200S. It combines relay switching of the P1/P2 voltage buses with two separate P/M-switching semiconductor outputs. The exact safety capability depends on the connected modules and switching arrangement.

01

VERIFIED TECHNICAL INFORMATION

Rated load supply	24 V DC; permissible 20.4-28.8 V
Output arrangement	2 P/M semiconductor outputs plus 1 P/M relay output
Semiconductor output current	2 A rated per output; permitted on-state load 20 mA-2.4 A
Group-current derating	Horizontal: 10 A to 40°C, 7 A to 55°C, 6 A to 60°C; vertical: 6 A to 40°C
External relay protection	10 A B-characteristic circuit breaker required by original manual
Process-image allocation	5 input bytes and 5 output bytes; only useful-data bits may be accessed
PROFIsafe destination address	1-1022; switch setting must match configuration and uniqueness rules

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

Readback time	1/5/10/50/100/200/400 ms; default 1 ms
Backplane current consumption	Maximum 28 mA
No-load current from L+	Typical 100 mA
Typical power dissipation	4 W
Reverse-polarity protection	Not provided
Terminal module types	TM-P30S44-A0 or TM-P30C44-A0
Maximum actuator cable length	200 m; P and M signal lines routed together as specified
Semiconductor load range	12 ohm-1 kohm; maximum 10 W lamp load

03 SOURCE AND CONFIGURATION CHECKS

The module supports documented shutdown functions for compatible loads such as solenoid valves and DC contactors. It is not a universal safety enable or voltage converter. Engineering must address the terminal base, external relay-contact protection, PROFIsafe address and complete system-level safety assessment.

Historical CF02 documentation is used with the later 2015 safety-characteristics update. The reference excerpts are not complete commissioning or troubleshooting manuals. CF03 switching-frequency conditions and other order-code assumptions must not be substituted for the documented CF02 requirements.

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](#)