

SIMATIC ET 200 distributed I/O

ET 200S

I/O modules

Power modules for PM-E electronic modules

Overview



- For monitoring and, depending on the version, fusing the load and sensor supply voltage
- Can be plugged onto TM-P terminal modules with automatic coding
- Diagnostic message for voltage and blown fuse (can be switched off via configuration)
- PM-E 24 V DC Standard
 - load voltage diagnostics
- PM-E 24 V DC High Feature
 - load voltage and reverse voltage diagnostics
 - with status information
 - option handling (only in combination with the IM 151-1 Standard, IM 151-1 FO Standard and IM 151-1 High Feature)
- 24 to 48 V DC PM-E power module
 - load voltage diagnostics
 - with status information
 - option handling (only in combination with the IM 151-1 Standard, IM 151-1 FO Standard and IM 151-1 High Feature)
- PM-E 24 V DC to 230 V AC power module
 - power module for universal use
 - with integral replaceable fuse
 - with status information
 - option handling (only in combination with the IM 151-1 Standard, IM 151-1 FO Standard and IM151-1 High Feature)

Technical specifications

	6ES7 138-4CA01-0AA0	6ES7 138-4CB11-0AB0
Product type designation	PM-E 24 V DC	
Power supply		
Current carrying capacity	10 A	
• Current carrying capacity up to 60 °C, max.		
Supply voltages		
Load voltage L+	24 V	
• Rated value (DC)		
• Short-circuit protection		
• Reverse polarity protection	No; external (e.g. automatic circuit breaker), tripping characteristic C Yes	
Current consumption		
from load voltage 1L+ (without load), max.	4 mA	
Power losses		
Power loss, typ.	0.1 W	
Parameter		
Remark	3 byte	
Missing load voltage	Disable / enable	
Alarms/diagnostics/status information		
Diagnostics	Yes	
• Diagnostics		
• Missing load voltage	Yes	
Diagnostic indication LED	Yes	
• Rated load voltage PWR (green)		
• Group error SF (red)	Yes	
Isolation		
Isolation checked with	500 V DC	
Galvanic isolation		
primary/secondary	Yes; between rated load voltage and backplane bus, between power modules	
Dimensions and weight		
Dimensions		
• Width	15 mm	15 mm
• Height	81 mm	81 mm
• Depth	52 mm	52 mm
Weight		
• Weight, approx.	35 g	

Technical specifications (continued)

6ES7 138-4CA50-0AB0	
Product type designation	PM-E 24 to 48 V DC
Power supply Current carrying capacity • Current carrying capacity up to 60 °C, max.	10 A
Supply voltages Load voltage L+ • Rated values • Short-circuit protection • Reverse polarity protection	24 to 48 V DC No; external (e.g. automatic circuit breaker), tripping characteristic B, C Yes
Current consumption from load voltage 1L+ (without load), max.	12 mA
Power losses Power loss, typ.	500 W; mW
Parameter Remark	3 byte
Missing load voltage	Disable / enable
Alarms/diagnostics/status information Diagnostics • Diagnostics • Missing load voltage	Yes Yes
Diagnostic indication LED • Rated load voltage PWR (green) • Group error SF (red)	Yes Yes
Isolation Isolation checked with	500 V DC
Galvanic isolation primary/secondary	Yes; between rated load voltage and backplane bus, between power modules
Dimensions and weight Dimensions • Width • Height • Depth	15 mm 81 mm 52 mm
Weight • Weight, approx.	35 g

Ordering data**Order No.****PM-E 24 V DC Standard power module ¹⁾**

For electronic modules; with diagnostics

1 unit

6ES7 138-4CA01-0AA0

5 units

6ES7 138-4CA01-1AA0**PM-E 24 V DC High Feature power module ¹⁾**

For electronic modules; with diagnostics

6ES7 138-4CA60-0AB0**24 ... 48 V DC PM-E power module**

For electronic modules; with diagnostics, with status bit "load voltage" present

1 unit

6ES7 138-4CA50-0AB0

5 units

6ES7 138-4CA50-1AB0**Power module
PM-E 24 ... 48 V DC,
42 ... 230 V AC**

For electronic modules; with diagnostics and fuse

6ES7 138-4CB11-0AB0**Accessories****Label sheets DIN A4 (10 units)**

Each sheet contains 60 label strips for I/O modules and 20 label strips for interface modules

- petrol
- red
- yellow
- light beige

6ES7 193-4BH00-0AA0
6ES7 193-4BD00-0AA0
6ES7 193-4BB00-0AA0
6ES7 193-4BA00-0AA0

¹⁾ Can be used for all electronic and technology modules except 2 DI 120 V AC / 2 DI 230 V AC / 2 DO 120/230 V AC

I: Subject to export regulations AL: N and ECCN: EAR99H

Selection tool for terminal modules

Power modules	TM-P terminal modules for power modules			
Screw-type terminal type designation	TM-P15S23-A1	TM-P15S23-A0	TM-P15S22-01	TM-P30S44-A0
Order No.: 6ES7 193...	4CC20-0AA0	4CD20-0AA0	4CE00-0AA0	4CK20-0AA0
Spring-loaded terminal type designation	TM-P15C23-A1	TM-P15C23-A0	TM-P15C22-01	TM-P30C44-A0
Order No.: 6ES7 193...	4CC30-0AA0	4CD30-0AA0	4CE10-0AA0	4CK30-0AA0
FastConnect type designation	TM-P15N23-A1	TM-P15N23-A0	TM-P15N22-01	Soon to come
Order No.: 6ES7 193...	4CC70-0AA0	4CD70-0AA0	4CE60-0AA0	
PM-E 24 V DC	•	•	•	
PM-E 24 ... 48 V DC	•	•	•	
PM-E 24 V DC/120/230 V AC	•	•	•	
PM-E F 24 V DC PROFIsafe				•