

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.
- Diagnostics 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)
- PM-E 24 to 48 V DC
 - 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 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

Article number	6ES7138-4CA01-0AA0	6ES7138-4CB11-0AB0
	ET200S, POWER MODULE PM-E, 24V DC	ET200S, POWERMOD.PM-E;DC24-48V/AC24-230V
Product type designation		
Supply voltage		
Load voltage L+		
• Rated value (DC)	24 V	
• short-circuit protection	No; external (e.g. automatic circuit breaker), tripping characteristic C	
• Reverse polarity protection	Yes	
Input current		
from load voltage 1L+ (without load), max.	4 mA	
Current carrying capacity		
up to 60 °C, max.	10 A	
Power losses		
Power loss, typ.	0.1 W	
Interrupts/diagnostics/status information		
Diagnostic messages		
• Diagnostics	Yes	
• Missing load voltage	Yes	
Diagnostics indication LED		
• Rated load voltage PWR (green)	Yes	
• Group error SF (red)	Yes	
Parameter		
Remark	3 byte	
Missing load voltage	Disable / enable	
Galvanic isolation		
primary/secondary	Yes; between rated load voltage and backplane bus, between power modules	
Isolation		
Isolation checked with	500 V DC	
Dimensions		
Width	15 mm	15 mm
Height	81 mm	81 mm
Depth	52 mm	52 mm
Weights		
Weight, approx.	35 g	

Ordering data	Article No.	Accessories	Article No.
PM-E 24 V DC Standard power module ¹⁾ For electronic modules; with diagnostics 1 unit 5 units	6ES7138-4CA01-0AA0 6ES7138-4CA01-1AA0	Label sheets DIN A4 (10 pieces) Each sheet contains 60 labeling strips for I/O modules and 20 labeling strips for interface modules • petrol • red • yellow • light beige	6ES7193-4BH00-0AA0 6ES7193-4BD00-0AA0 6ES7193-4BB00-0AA0 6ES7193-4BA00-0AA0
PM-E 24 V DC High Feature power module ¹⁾ For electronic modules; with diagnostics	6ES7138-4CA60-0AB0		
PM-E 24 to 48 V DC power module For electronic modules; with diagnostics, with status bit "load voltage" present 1 unit 5 units	6ES7138-4CA50-0AB0 6ES7138-4CA50-1AB0		
PM-E 24 to 48 V DC, 42 to 230 V AC power module For electronic modules; with diagnostics and fuse	6ES7138-4CB11-0AB0		

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

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
Article number 6ES7193...	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
Article number 6ES7193...	4CC30-0AA0	4CD30-0AA0	4CE10-0AA0	4CK30-0AA0
FastConnect type designation	TM-P15N23-A1	TM-P15N23-A0	TM-P15N22-01	Soon to come
Article number 6ES7193...	4CC70-0AA0	4CD70-0AA0	4CE60-0AA0	
PM-E 24 V DC	•	•	•	
PM-E 24 to 48 V DC	•	•	•	
PM-E 24 V DC/120/230 V AC	•	•	•	
PM-E F 24 V DC PROFIsafe				•

I/O systems

ET 200 systems for the control cabinet

ET 200S - I/O modules

SIPLUS 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
- Diagnostics message for voltage and blown fuse (can be switched off via configuration)
- Fail-safe PM-E F PROFIsafe power module for safely switching off sequentially plugged-in 24 V DC to 10 A digital output modules or external loads; 3 additional integrated fail-safe 24 V DC/2 A outputs
- PM-E 24 to 48 V DC
 - with status information and diagnostics "Load voltage present"
 - for option handling
- PM-E 24 V DC to 230 V AC
 - power module for universal use
 - for option handling

Note:

SIPLUS extreme products are based on SIMATIC standard products. The contents listed here were taken from the respective standard products. SIPLUS extreme specific information was added.

For technical documentation on SIPLUS, see:

<http://www.siemens.com/siplus-extreme>

Technical specifications

Article number	6AG1138-4CA01-2AA0	6AG1138-4CB11-2AB0	6AG1138-4CA50-2AB0
Based on	6ES7138-4CA01-0AA0 SIPLUS DP PM-E ET200S	6ES7138-4CA50-0AB0 SIPLUS ET200S PM-E DC/AC	6ES7138-4CB11-0AB0 SIPLUS ET200S PM 24V-48V
Ambient conditions			
Ambient temperature in operation			
• Min.	-40 °C; = Tmin	-25 °C; = Tmin	-25 °C; = Tmin
• max.	70 °C; = Tmax	60 °C; = Tmax	60 °C; = Tmax
Extended ambient conditions			
• Relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
Relative humidity			
- With condensation, max.	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)
Resistance			
- against biologically active substances / conformity with EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
- against chemically active substances / conformity with EN 60721-3-3	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3C4 incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3C4 incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!
- against mechanically active substances / conformity with EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!