



SIMATIC DP, POWER MODULE PM-E F PROFISAFE, FOR ET 200S; 24V DC USEABLE FOR INSTALLATIONS WITH GROUNDED REFERENCE POTENTIAL RELAIS FOR FAIL-SAFE SWITCHING OF VOLTAGE BUS P2 UP TO CATEGORY 3 (EN954-1)/ SIL2 (IEC61508)/PLD (ISO13849), ALSO USEABLE IN PROFINET-NETWORKS WITH IM151-3 HF

Figure similar

Supply voltage

Load voltage L+

- | | |
|-------------------------------|------|
| • Rated value (DC) | 24 V |
| • Reverse polarity protection | No |

Input current

- | | |
|---|-------------|
| from load voltage L+ (without load), max. | typ. 100 mA |
| from backplane bus 24 V DC, max. | 28 mA |

Current carrying capacity

- | | |
|-------------------|------|
| up to 30 °C, max. | 10 A |
| up to 40 °C, max. | 8 A |
| up to 60 °C, max. | 7 A |

Power losses

- | | |
|------------------|-----|
| Power loss, typ. | 4 W |
|------------------|-----|

Address area

Address space per module

- | | |
|-------------------|---------------------------------------|
| • without packing | 5 byte; Input and output in each case |
|-------------------|---------------------------------------|

Digital inputs

Cable length

- | | |
|--------------------|-------|
| • shielded, max. | 200 m |
| • Unshielded, max. | 200 m |

Digital outputs

- | | |
|---------------------------|-----------|
| Number of digital outputs | 1; Relays |
| short-circuit protection | No |

Controlling a digital input	Yes
Switching capacity of the outputs	
• on lamp load, max.	100 W
Switching frequency	
• with resistive load, max.	2 Hz
• with inductive load, max.	0.1 Hz; with inductive load to IEC 947-5-1, DC-13 / AC-15
• on lamp load, max.	2 Hz
Aggregate current of outputs (per group)	
horizontal installation	
— up to 40 °C, max.	10 A
— up to 55 °C, max.	8 A
— up to 60 °C, max.	7 A
vertical installation	
— up to 40 °C, max.	8 A
Relay outputs	
Switching capacity of contacts	
— at ohmic load, up to 50 °C, max.	10 A
Interrupts/diagnostics/status information	
Diagnostic messages	
• Diagnostic functions	Yes
• Diagnostic information readable	Yes
• Wire break	No
• Short circuit	Yes
• Missing load voltage	Yes
Diagnostics indication LED	
• Rated load voltage PWR (green)	Yes
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes
Galvanic isolation	
Galvanic isolation digital outputs	
• between the channels	No
• between the channels and the backplane bus	Yes
• between the channels and the load voltage L+	No
Isolation	
Isolation checked with	500 V DC
tested with	
• Channels against backplane bus and load voltage L+	500 V DC
Standards, approvals, certificates	
Highest safety class achievable in safety mode	

- acc. to EN 954
- SIL according to IEC 61508

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 With Std-DO: Max. SIL 2, without Std-DO max. SIL 3 depending on configuration

Dimensions

Width	30 mm
Height	81 mm
Depth	52 mm

Weights

Weight, approx.	80 g
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last modified: 12.03.2015