## **SIEMENS**

## **Data sheet**

## 6ES7138-4CF03-0AB0



SIMATIC DP, Power Module PM-E F PROFIsafe, f. ET200S; 24 V DC suitable for ungrounded setup relay for switching the voltage buses P1 and P2 up to Category 3 (EN 954-1)/ SIL2 (IEC61508)/PLD (ISO13849), 2 fail-safe dig. outputs up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849), can also be used in PROFINET configuration with IM 151-3 HF

Figure similar

i igure sinina	
Supply voltage	
Load voltage L+	
<ul> <li>Rated value (DC)</li> </ul>	24 V
<ul> <li>Reverse polarity protection</li> </ul>	No
Input current	
From load voltage L+ (no load), typ.	100 mA
from backplane bus 24 V DC, max.	28 mA
Power loss	
Power loss, typ.	4 W
Address area	
Address space per module	
• Inputs	5 byte
<ul><li>Outputs</li></ul>	5 byte
Digital outputs	
Number of digital outputs	2
Short-circuit protection	Yes; Electronic
Response threshold, typ.	Response threshold (short-circuit): 5 to 12 A; response threshold (external short-circuit to ground): 5 to 12 A; response threshold (external short-circuit to P potential): 25 to 45 A
Limitation of inductive shutdown voltage to	L+ (-2x 47 V)
Controlling a digital input	No
Switching capacity of the outputs	
on lamp load, max.	10 W
Load resistance range	
lower limit	12 Ω
upper limit	1 kΩ
Output voltage	
● for signal "1", min.	L+ (-2,0 V), current sourcing switch: L+ (-1,5 V), voltage drop on current sinking switch: max. $0.5\ V$
Output current	
● for signal "1" rated value	2 A
<ul> <li>for signal "1" permissible range for 0 to 60 °C, min.</li> </ul>	20 mA
<ul> <li>for signal "1" permissible range for 0 to 60 °C, max.</li> </ul>	2.4 A
for signal "0" residual current, max.	0.5 mA
Parallel switching of two outputs	
• for uprating	No
for redundant control of a load	No
Switching frequency	
<ul><li>with resistive load, max.</li></ul>	30 Hz
with inductive load, max.	0.1 Hz

• on lamp load, max.	10 Hz	
Total current of the outputs (per group)		
horizontal installation		
— up to 40 °C, max.	10 A	
— up to 55 °C, max.	7 A	
— up to 60 °C, max.	6 A	
vertical installation		
— up to 40 °C, max.	6 A	
Relay outputs		
Switching capacity of contacts		
— with resistive load, up to 50 °C, max.	10 A	
Cable length		
• shielded, max.	200 m	
• unshielded, max.	200 m	
Interrupts/diagnostics/status information		
Diagnostics function	Yes	
Diagnoses		
<ul> <li>Diagnostic information readable</li> </ul>	Yes	
Wire-break	Yes	
Short-circuit	Yes	
missing load voltage	Yes	
Diagnostics indication LED		
<ul> <li>Rated load voltage PWR (green)</li> </ul>	Yes	
<ul> <li>Group error SF (red)</li> </ul>	Yes	
<ul> <li>Status indicator digital output (green)</li> </ul>	Yes	
Potential separation		
Potential separation digital outputs		
<ul> <li>between the channels</li> </ul>	No	
<ul> <li>between the channels and backplane bus</li> </ul>	Yes	
<ul> <li>Between the channels and load voltage L+</li> </ul>	No	
Isolation		
Isolation tested with	500 V DC	
Standards, approvals, certificates		
Highest safety class achievable in safety mode		
● acc. to EN 954	4	
<ul> <li>Performance level according to ISO 13849-1</li> </ul>	e	
<ul> <li>SIL acc. to IEC 61508</li> </ul>	Up to SIL 3	
Dimensions		
Width	30 mm	
Height	81 mm	
Depth	52 mm	
Weights		
Weight, approx.	88 g	

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