SIEMENS

Data sheet

6ES7138-4CF03-0AB0



*** Spare part *** 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

Supply voltage	
Load voltage L+	
 Rated value (DC) 	24 V
 Reverse polarity protection 	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
 Outputs 	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
 for signal "1" permissible range for 0 to 60 °C, min. 	20 mA
 for signal "1" permissible range for 0 to 60 °C, max. 	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	
with resistive load, max.	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		
 Diagnostic information readable 	Yes	
Wire-break	Yes	
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	
Potential separation		
Potential separation digital outputs		
 between the channels 	No	
 between the channels and backplane bus 	Yes	
 Between the channels and load voltage L+ 	No	
Isolation		
Isolation tested with	500 V DC	
Standards, approvals, certificates		
Highest safety class achievable in safety mode		
● acc. to EN 954	4	
 Performance level according to ISO 13849-1 	e	
 SIL acc. to IEC 61508 	Up to SIL 3	
Dimensions		
Width	30 mm	
Height	81 mm	
Depth	52 mm	
Weights		
Weight, approx.	88 g	

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