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

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	

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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	0.4
— up to 40 °C, max.	6 A
Relay outputs	
Switching capacity of contacts	10 A
— with resistive load, up to 50 °C, max.	10 A
Cable length • shielded, max.	200 m
unshielded, max.	200 m
Interrupts/diagnostics/status information	200 111
	Yes
Diagnostics function	res
Diagnoses • Diagnostic information readable	Yes
Wire-break	Yes
Short-circuit	Yes
missing load voltage	Yes
Diagnostics indication LED	103
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	е
• 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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