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

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	2011
with resistive load, max.	30 Hz

Height Depth Weights Weight, approx.	52 mm 88 g
Depth Weights	52 mm
Depth	
1.1 - 1 - 1 - 4	81 mm
Width	30 mm
Dimensions	20 mm
	op to oil o
Performance level according to ISO 13849-1 SIL acc. to IEC 61508	e Up to SIL 3
 Acc. to EN 954 Performance level according to ISO 13849-1 	
acc. to EN 954	4
Highest safety class achievable in safety mode	
Standards, approvals, certificates	
Isolation tested with	500 V DC
Isolation	
Between the channels and load voltage L+	No
between the channels and backplane bus	Yes
between the channels	No
Potential separation digital outputs	
Potential separation	
Status indicator digital output (green)	Yes
Group error SF (red)	Yes
Rated load voltage PWR (green)	Yes
Diagnostics indication LED	
missing load voltage	Yes
Short-circuit	Yes
Wire-break	Yes
Diagnostic information readable	Yes
Diagnoses	
Diagnostics function	Yes
Interrupts/diagnostics/status information	
unshielded, max.	200 m
• shielded, max.	200 m
Cable length	
— with resistive load, up to 50 °C, max.	10 A
Switching capacity of contacts	
Relay outputs	
— up to 40 °C, max.	6 A
vertical installation	
— up to 60 °C, max.	6 A
— up to 55 °C, max.	7 A
— up to 40 °C, max.	10 A
horizontal installation	
Total current of the outputs (per group)	
• on lamp load, max.	10 Hz
 with inductive load, max. 	0.1 Hz

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