SIEMENS

Data sheet

6ES7138-4FR00-0AA0



SIMATIC DP, Electronics module 1F-RO 24 V DC/AC 24..230V/5A, f. ET200S, 30 mm overall width, 1 relay output (2 NO) Output current 5 A, load voltage 24 V DC and 24...230 V AC, Can be used up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849), if control takes place F-DO (e.g. 6ES7138-4FB02-0AB0) F-DQ

Figure similar

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Supply voltage	
Load voltage L+	
 Rated value (DC) 	24 V; Supply via fail-safe output, e.g. of an F-DO
Input current	
from load voltage L+ (without load), max.	100 mA; from control voltage
from backplane bus 3.3 V DC, max.	10 mA
Power loss	
Power loss, typ.	2.1 W
Address area	
Address space per module	
 Address space per module, max. 	1 byte
with packing	2 bit
Digital outputs	
Type of digital output	Relays
Number of digital outputs	1
Short-circuit protection	No
Controlling a digital input	Yes
Output current	
for signal "1" rated value	5 A
for signal "1" minimum load current	5 mA
Switching frequency	
with resistive load, max.	2 Hz
with inductive load, max.	0.1 Hz
Total current of the outputs	
Current per module, max.	8 A
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	8 A
— up to 50 °C, max.	6 A
— up to 60 °C, max.	5 A; up to max. 24.8 V
vertical installation	
— up to 40 °C, max.	6 A
Relay outputs	
Switching capacity of contacts	
— Thermal continuous current, max.	5 A
Cable length	
• shielded, max.	200 m
• unshielded, max.	200 m
Interrupts/diagnostics/status information	

Diagnostics indication LED		
 Status indicator digital output (green) 	Yes	
Potential separation		
Potential separation digital outputs		
 between the channels 	Yes	
 between the channels and backplane bus 	Yes	
 Between the channels and load voltage L+ 	Yes; between channels and control voltage	
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.	90 g	

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last modified: