

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

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
<b>Output current</b>	
• for signal "1" rated value	5 A
• for signal "1" minimum load current	5 mA
<b>Switching frequency</b>	
• with resistive load, max.	2 Hz
• with inductive load, max.	0.1 Hz
<b>Total current of the outputs</b>	
• Current per module, max.	8 A
<b>Total current of the outputs (per group)</b>	
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
<b>Relay outputs</b>	
Switching capacity of contacts	
— Thermal continuous current, max.	5 A
<b>Cable length</b>	
• shielded, max.	200 m
• unshielded, max.	200 m
<b>Interrupts/diagnostics/status information</b>	
Diagnostics indication LED	
• Status indicator digital output (green)	Yes
<b>Potential separation</b>	
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
<b>Standards, approvals, certificates</b>	
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
<b>Dimensions</b>	
Width	30 mm
Height	81 mm
Depth	52 mm
<b>Weights</b>	

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Weight, approx.

90 g

**last modified:**

12/09/2020