

SIMATIC DP, ELECTRON. MODULE F. ET200S, 4 F-DO  
 PROFISAFE, DC 24V/2A, 30 MM WIDTH UP TO CATEGORY 4  
 (EN954-1) ALSO USEABLE IN PROFINET- NETWORKS WITH  
 IM151-3 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 3.3 V DC, max.	28 mA

### Power loss

Power loss, typ.	3.5 W
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### Digital outputs

Number of digital outputs	4
Limitation of inductive shutdown voltage to	typ. (L+) -47 V
Controlling a digital input	No

Switching capacity of the outputs	
• on lamp load, max.	10 W

Load resistance range	
• lower limit	12 $\Omega$
• upper limit	1 k $\Omega$

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, min.	20 mA
• for signal "1" permissible range, max.	2.4 A
• for signal "0" residual current, max.	0.5 mA; Current-sourcing: max. 0.5 mA; Current sinking: max. 4 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
<b>Total current of the outputs</b>	
• Current per module, max.	6 A
<b>Total current of the outputs (per group)</b>	
horizontal installation	
— up to 40 °C, max.	6 A
— up to 55 °C, max.	5 A
vertical installation	
— up to 40 °C, max.	4 A
<b>Cable length</b>	
• shielded, max.	200 m
• unshielded, max.	200 m

<b>Interrupts/diagnostics/status information</b>	
Diagnostic functions	Yes
<b>Diagnostic messages</b>	
• Wire-break	Yes
• Short-circuit	Yes
<b>Diagnostics indication LED</b>	
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes

<b>Potential separation</b>	
<b>Potential separation digital outputs</b>	
• between the channels	No
• between the channels and backplane bus	Yes
• Between the channels and load voltage L+	No

<b>Standards, approvals, certificates</b>	
<b>Highest safety class achievable in safety mode</b>	
• acc. to EN 954	Cat. 4
• SIL acc. to IEC 61508	SIL 3

<b>Dimensions</b>	
Width	30 mm
Height	81 mm
Depth	52 mm

<b>Weights</b>	
Weight, approx.	85 g
<b>last modified:</b>	08/12/2017