



SIMATIC DP, 5 electronic modules for ET 200S, 4 DO High Feature 24 V DC/2 A, 15 mm width, Short-circuit diagnostics, SF LED 5 units per packing unit

Figure similar

Supply voltage	
Reverse voltage protection	Yes; when using the same load voltage as on the power module
Load voltage L+	
<ul style="list-style-type: none"> <li>Rated value (DC)</li> </ul>	24 V; From power module
<ul style="list-style-type: none"> <li>Reverse polarity protection</li> </ul>	Yes; polarity reversal can lead to the digital outputs being connected through
Input current	
from load voltage L+ (without load), max.	5 mA; Per channel
from backplane bus 3.3 V DC, max.	10 mA
Power loss	
Power loss, typ.	1.6 W
Address area	
Address space per module	
<ul style="list-style-type: none"> <li>Address space per module, max.</li> </ul>	1 byte
<ul style="list-style-type: none"> <li>with packing</li> </ul>	4 bit
Digital outputs	
Type of digital output	Transistor
Number of digital outputs	4
Short-circuit protection	Yes
<ul style="list-style-type: none"> <li>Response threshold, typ.</li> </ul>	5 to 10 A
Limitation of inductive shutdown voltage to	L+ (-37 to 41V)
Controlling a digital input	Yes
Load resistance range	
<ul style="list-style-type: none"> <li>lower limit</li> </ul>	12 Ω
<ul style="list-style-type: none"> <li>upper limit</li> </ul>	3 400 Ω
Output voltage	
<ul style="list-style-type: none"> <li>for signal "1", min.</li> </ul>	L+ (-1.0 V)
Output current	
<ul style="list-style-type: none"> <li>for signal "1" rated value</li> </ul>	2 A
<ul style="list-style-type: none"> <li>for signal "1" permissible range, min.</li> </ul>	7 mA
<ul style="list-style-type: none"> <li>for signal "1" permissible range, max.</li> </ul>	2.4 A
<ul style="list-style-type: none"> <li>for signal "0" residual current, max.</li> </ul>	0.5 mA
Output delay with resistive load	
<ul style="list-style-type: none"> <li>"0" to "1", max.</li> </ul>	250 μs
<ul style="list-style-type: none"> <li>"1" to "0", max.</li> </ul>	400 μs
Parallel switching of two outputs	
<ul style="list-style-type: none"> <li>for uprating</li> </ul>	No
<ul style="list-style-type: none"> <li>for redundant control of a load</li> </ul>	Yes; per module
Switching frequency	
<ul style="list-style-type: none"> <li>with resistive load, max.</li> </ul>	100 Hz

• with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
<b>Total current of the outputs</b>	
• Current per module, max.	4 A
<b>Cable length</b>	
• shielded, max.	1 000 m
• unshielded, max.	600 m
<b>Interrupts/diagnostics/status information</b>	
Diagnostics function	Yes
<b>Diagnoses</b>	
• Short-circuit	Yes; Module-wise
<b>Diagnostics indication LED</b>	
• Group error SF (red)	Yes; SF-LED (red)
• Status indicator digital output (green)	Yes; Per channel
<b>Potential separation</b>	
<b>Potential separation digital outputs</b>	
• between the channels	No
• between the channels and backplane bus	Yes
<b>Isolation</b>	
Isolation tested with	500 V DC
<b>Dimensions</b>	
Width	15 mm
Height	81 mm
Depth	52 mm
<b>Weights</b>	
Weight, approx.	40 g

**last modified:** 10/3/2023 