

SIMATIC DP, 5 ELECTRON. MODULES FOR ET 200S, 4 DO  
STANDARD DC 24V/0.5A, 15 MM WIDTH, 5 PIECES PER  
PACKAGING UNIT



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.	10 mA; Per channel
from backplane bus 3.3 V DC, max.	10 mA
Power loss	
Power loss, typ.	0.8 W
Address area	
Address space per module	
<ul style="list-style-type: none"> <li>with packing</li> </ul>	4 bit
<ul style="list-style-type: none"> <li>without packing</li> </ul>	1 byte
Digital outputs	
Number of digital outputs	4

Short-circuit protection	Yes
• Response threshold, typ.	1 to 1.5 A
Limitation of inductive shutdown voltage to	L+ (-55 to -60 V)
Controlling a digital input	Yes
<b>Switching capacity of the outputs</b>	
• on lamp load, max.	5 W
<b>Load resistance range</b>	
• lower limit	48 $\Omega$
• upper limit	3 400 $\Omega$
<b>Output voltage</b>	
• for signal "1", min.	L+ (-1 V)
<b>Output current</b>	
• for signal "1" rated value	0.5 A
• for signal "1" permissible range, min.	7 mA
• for signal "1" permissible range, max.	600 mA
• for signal "0" residual current, max.	0.3 mA
<b>Output delay with resistive load</b>	
• "0" to "1", max.	50 $\mu$ s
• "1" to "0", max.	120 $\mu$ s
<b>Parallel switching of two outputs</b>	
• for uprating	No
• for redundant control of a load	Yes; per module
<b>Switching frequency</b>	
• with resistive load, max.	800 Hz
• with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
<b>Total current of the outputs</b>	
• Current per module, max.	2 A
<b>Cable length</b>	
• shielded, max.	1 000 m
• unshielded, max.	600 m
<b>Isochronous mode</b>	
Isochronous operation (application synchronized up to terminal)	Yes
<b>Interrupts/diagnostics/status information</b>	
Diagnostic functions	No
<b>Diagnostics indication LED</b>	
• Status indicator digital output (green)	Yes
<b>Parameter</b>	
Remark	1 byte
<b>Potential separation</b>	

#### Potential separation digital outputs

- |  |     |
|--|-----|
| • between the channels                   | No  |
| • between the channels and backplane bus | Yes |

#### Isolation

Isolation tested with	500 V DC
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#### Dimensions

Width	15 mm
Height	81 mm
Depth	52 mm

#### Weights

Weight, approx.	40 g
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**last modified:** 06/28/2017