



SIMATIC DP, 5 ELECTRON. MODULES FOR ET 200S, 4 DO HIGH FEATURE 24V/2A DC, 15 MM WIDTH DIAGNOSIS SHORT CIRCUIT, SF-LED 5 PIECES PER PACKAGING 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 losses	
Power loss, typ.	1.6 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
<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 $\Omega$
<ul style="list-style-type: none"> <li>upper limit</li> </ul>	3 400 $\Omega$

<b>Output voltage</b>	
• for signal "1", min.	L+ (-1.0 V)
<b>Output current</b>	
• for signal "1" rated value	2 A
• for signal "1" permissible range for 0 to 60 °C, min.	7 mA
• for signal "1" permissible range for 0 to 60 °C, max.	2.4 A
• for signal "0" residual current, max.	0.5 mA
<b>Output delay with resistive load</b>	
• "0" to "1", max.	250 µs
• "1" to "0", max.	400 µs
<b>Parallel switching of 2 outputs</b>	
• for increased power	No
• for redundant control of a load	Yes; per module
<b>Switching frequency</b>	
• with resistive load, max.	100 Hz
• with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
<b>horizontal installation</b>	
— up to 60 °C, max.	4 A
<b>vertical installation</b>	
— up to 40 °C, max.	4 A; At 55 °C and 24 V DC
<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>	
<b>Diagnostic messages</b>	
• Diagnostic functions	Yes
• 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>Galvanic isolation</b>	
<b>Galvanic isolation digital outputs</b>	
• between the channels	No
• between the channels and the backplane bus	Yes
<b>Isolation</b>	

Isolation checked with	500 V DC
<b>Dimensions</b>	
Width	15 mm
Height	81 mm
Depth	52 mm
<b>Weights</b>	
Weight, approx.	40 g
<b>last modified:</b>	12.03.2015