

SIMATIC DP, 5 ELECTRON. MODULES FOR ET 200S, 4 DO
SHIGH FEATURE 24V/2A DC, 15 MM WIDTH DIAGNOSIS SHORT
CIRCUIT, SF-LED 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"> Rated value (DC) 	24 V; From power module
<ul style="list-style-type: none"> Reverse polarity protection 	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
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Address area

Address space per module	
<ul style="list-style-type: none"> with packing 	4 bit
<ul style="list-style-type: none"> without packing 	1 byte

Digital outputs

Number of digital outputs	4
Short-circuit protection	Yes
<ul style="list-style-type: none"> Response threshold, typ. 	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"> lower limit 	12 Ω
<ul style="list-style-type: none"> upper limit 	3 400 Ω
Output voltage	
<ul style="list-style-type: none"> for signal "1", min. 	L+ (-1.0 V)
Output current	
<ul style="list-style-type: none"> for signal "1" rated value 	2 A
<ul style="list-style-type: none"> for signal "1" permissible range, min. 	7 mA
<ul style="list-style-type: none"> for signal "1" permissible range, max. 	2.4 A
<ul style="list-style-type: none"> for signal "0" residual current, max. 	0.5 mA
Output delay with resistive load	
<ul style="list-style-type: none"> "0" to "1", max. 	250 μ s

• "1" to "0", max.	400 µs
Parallel switching of two outputs	
• for uprating	No
• for redundant control of a load	Yes; per module
Switching frequency	
• with resistive load, max.	100 Hz
• with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
Total current of the outputs	
• Current per module, max.	4 A
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	Yes
Interrupts/diagnostics/status information	
Diagnostic functions	Yes
Diagnostic messages	
• Short-circuit	Yes; Module-wise
Diagnostics indication LED	
• Group error SF (red)	Yes; SF-LED (red)
• Status indicator digital output (green)	Yes; Per channel
Potential separation	
Potential separation digital outputs	
• between the channels	No
• between the channels and backplane bus	Yes
Isolation	
Isolation tested with	500 V DC
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	40 g
last modified:	14.05.2016