



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"> 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.	10 mA; Per channel
from backplane bus 3.3 V DC, max.	10 mA

Power losses

Power loss, typ.	0.8 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. 	1 to 1.5 A
Limitation of inductive shutdown voltage to	(L+) -55 to -60 V
Controlling a digital input	Yes
Switching capacity of the outputs	
<ul style="list-style-type: none"> on lamp load, max. 	5 W
Load resistance range	

• lower limit	48 Ω
• upper limit	3 400 Ω
Output voltage	
• for signal "1", min.	L+ (-1 V)
Output current	
• for signal "1" rated value	0.5 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.	600 mA
• for signal "0" residual current, max.	0.3 mA
Output delay with resistive load	
• "0" to "1", max.	45 μs; Typical value
• "1" to "0", max.	90 μs; Typical value
Parallel switching of 2 outputs	
• for increased power	No
• for redundant control of a load	Yes; per module
Switching frequency	
• with resistive load, max.	800 Hz
• with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
Aggregate current of outputs (per group)	
all mounting positions	
— up to 60 °C, max.	2 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 messages	
• Diagnostic functions	No
Diagnostics indication LED	
• Status indicator digital output (green)	Yes
Parameter	
Remark	1 byte
Galvanic isolation	
Galvanic isolation digital outputs	
• between the channels	No
• between the channels and the backplane bus	Yes

Isolation

Isolation checked with	500 V DC
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Dimensions

Width	15 mm
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Height	81 mm
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Depth	52 mm
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Weights

Weight, approx.	40 g
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last modified:	12.03.2015
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