



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+	
Rated value (DC)	24 V ; From power module
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 loss	
Power loss, typ.	0.8 W
Address area	
Address space per module	
with packing	4 bit
without packing	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>	
Lamp load, max.	5 W
<b>Load resistance range</b>	
lower limit	48 Ω
upper limit	3400 Ω
<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 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
<b>Output delay with resistive load</b>	
"0" to "1", max.	45 μs ; Typical value
"1" to "0", max.	90 μs ; Typical value
<b>Parallel switching of 2 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 (per group)</b>	
all mounting positions	
up to 60 °C, max.	2 A
<b>Cable length</b>	
Cable length, shielded, max.	1000 m
Cable length unshielded, max.	600 m
<b>Isochronous mode</b>	
Isochronous mode (application synchronized up to terminal)	Yes
<b>Interrupts/diagnostics/status information</b>	
<b>Diagnostic messages</b>	
Diagnostic functions	No
<b>Diagnostics indication LED</b>	
Status indicator digital output (green)	Yes
<b>Parameter</b>	

<b>Remark</b>	1 byte
<b>Galvanic isolation</b>	
<b>Galvanic isolation digital outputs</b>	
<b>between the channels</b>	No
<b>between the channels and the backplane bus</b>	Yes
<b>Isolation</b>	
<b>Isolation tested with</b>	500 V DC
<b>Dimensions</b>	
<b>Width</b>	15 mm
<b>Height</b>	81 mm
<b>Depth</b>	52 mm
<b>Weights</b>	
<b>Weight, approx.</b>	40 g
Status	Jul 28, 2014