



SIMATIC DP, 5 ELECTRON. MODULES FOR ET 200S, 4 DO
STANDARD DC 24V/2A, 15 MM WIDTH 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"> Rated value (DC) 	24 V; From power module
<ul style="list-style-type: none"> Reverse polarity protection 	Yes
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.	1.6 W
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. 	2.8 to 7.2 A
Limitation of inductive shutdown voltage to	Typ. 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. 	10 W
Load resistance range	

• lower limit	12 Ω
• upper limit	3 400 Ω
Output voltage	
• for signal "1", min.	L+ (-1.0 V)
Output current	
• 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
Output delay with resistive load	
• "0" to "1", max.	50 μs; Typ. 45 μs
• "1" to "0", max.	120 μs; Typ. 90 μs
Parallel switching of 2 outputs	
• for increased power	No
• for redundant control of a load	Yes; per module
Switching frequency	
• with resistive load, max.	1 000 Hz
• with inductive load, max.	2 Hz; At 0.5 H
• on lamp load, max.	10 Hz
Aggregate current of outputs (per group)	
all mounting positions	
— up to 60 °C, max.	4 A
vertical installation	
— up to 40 °C, max.	4 A; At 55 °C and 24 V DC
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
- between the channels and the backplane bus

No
Yes

Isolation

Isolation checked with 500 V DC

Dimensions

Width 15 mm

Height 81 mm

Depth 52 mm

Weights

Weight, approx. 40 g

last modified: 12.03.2015