



SIMATIC DP, 5 ELECTRON. MODULES FOR ET 200S, 2 DO HIGH FEATURE 24V DC, 15 MM WIDTH DIAGNOSIS F. SHORT-CIRCUIT AND OPEN-CIRCUIT, FIRST-UP SIGNAL WITH LED SF (GROUP FAULT), 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) Reverse polarity protection 	24 V; From power module 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.	0.4 W
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Address area

Address space per module	
<ul style="list-style-type: none"> with packing without packing 	2 bit 1 byte

Digital outputs

Number of digital outputs	2
short-circuit protection	Yes
<ul style="list-style-type: none"> Response threshold, typ. 	1,5 A
Limitation of inductive shutdown voltage to	-55 to -60 V, typ. L+()
Controlling a digital input	Yes
Switching capacity of the outputs	
<ul style="list-style-type: none"> on lamp load, max. 	2.5 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.	100 μs
• "1" to "0", max.	400 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.	100 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.	1 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	
Substitute values connectable	Yes; 0/1
Diagnostic messages	
• Diagnostic functions	Yes; Can be read out
• Wire break	Yes; channel by channel
• Short circuit	Yes; channel by channel
Diagnostics indication LED	
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes
Parameter	
Remark	3 byte

Diagnosis: wire break	Disable / enable
Diagnosis: short circuit	Disable / enable
Behavior on CPU/Master STOP, channel-wise	Substitute a value/keep last value

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
Height	81 mm
Depth	52 mm

Weights

Weight, approx.	40 g
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last modified: 12.03.2015