

SIMATIC S7-200, DIGITAL I/O EM 223, FOR S7-22X CPU ONLY,  
16DI 24V DC, SINK/SOURCE, 16DO 24V DC,  
0.75A/POINT,SOURCE



Figure similar

### Supply voltage

#### Load voltage L+

• Rated value (DC)	24 V
• permissible range, lower limit (DC)	20.4 V
• permissible range, upper limit (DC)	28.8 V

### Input current

from backplane bus 5 V DC, max.	160 mA
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### Power loss

Power loss, typ.	6 W
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### Digital inputs

Number of digital inputs	16
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#### Input voltage

• Type of input voltage	DC
• Rated value (DC)	24 V
• for signal "0"	0 to 5 V
• for signal "1"	15 V DC to 30 V DC

<b>Input current</b>	
• for signal "1", typ.	4 mA
<b>Input delay (for rated value of input voltage)</b>	
for standard inputs	
— at "0" to "1", max.	4.5 ms
<b>Digital outputs</b>	
Number of digital outputs	16
Short-circuit protection	No
Limitation of inductive shutdown voltage to	L+ (-48 V)
<b>Output voltage</b>	
• for signal "0", max.	0.1 V
• for signal "1", min.	20 V
<b>Output current</b>	
• for signal "1" rated value	750 mA
<b>Total current of the outputs (per group)</b>	
all mounting positions	
— Current per conductor/group, max.	3 A; 3 / 3 / 6
<b>Relay outputs</b>	
Switching capacity of contacts	
— with inductive load, max.	0.75 A; each output
— on lamp load, max.	5 W
— with resistive load, max.	0.75 A; each output
<b>Cable length</b>	
• shielded, max.	500 m
• unshielded, max.	150 m
<b>Encoder</b>	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1 mA
<b>Potential separation</b>	
Potential separation digital inputs	
• Potential separation digital inputs	Yes; Optocoupler
• between the channels, in groups of	4
<b>Potential separation digital outputs</b>	
• Potential separation digital outputs	Yes; Optocoupler
• between the channels, in groups of	4; 4 / 4 / 8
<b>Isolation</b>	
Isolation tested with	500 V AC
<b>Connection method</b>	

Plug-in I/O terminals	Yes
<b>Dimensions</b>	
Width	137.5 mm
Height	80 mm
Depth	62 mm
<b>Weights</b>	
Weight, approx.	360 g
<b>last modified:</b>	08/12/2017