SIEMENS

Data sheet 6ES7223-1BM22-0XA0

SIMATIC S7-200, DIGITAL I/O EM 223, FOR S7-22X CPU ONLY, 32DI 24V DC, SINK/SOURCE, 32DO 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.	240 mA
from sensor current supply or external current supply (24 V DC), max.	128 mA; ON: 4 mA/input
Power loss	
Power loss, typ.	9 W
Digital inputs	
Number of digital inputs	32
Input voltage	
• Type of input voltage	DC
• Rated value (DC)	24 V
• for signal "0"	0 to 5 V
• for signal "1"	15V DC to 30V DC

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Input current	
• for signal "1", typ.	4 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	4.5 ms

Digital outputs	
Number of digital outputs	32
Short-circuit protection	No
Limitation of inductive shutdown voltage to	L+ (-48 V)
Output voltage	
• for signal "0", max.	0.1 V
• for signal "1", min.	20 V
Output current	
• for signal "1" rated value	750 mA
Total current of the outputs (per group)	
all mounting positions	
— Current per conductor/group, max.	0.75 A; 10 A per group
Relay outputs	
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
Cable length	
• shielded, max.	500 m
• unshielded, max.	150 m

Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1 mA

Potential separation	
Potential separation digital inputs	
• Potential separation digital inputs	Yes; Optocoupler
• between the channels, in groups of	16; 2 groups with 16 inputs each
Potential separation digital outputs	
• Potential separation digital outputs	Yes; Optocoupler
• between the channels, in groups of	16; 2 groups with 16 outputs each

Isolation	
Isolation tested with	500 V AC

Connection method

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Plug-in I/O terminals	Yes

Dimensions	
Width	196 mm
Height	80 mm
Depth	62 mm

Weights	
Weight, approx.	500 g

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