SIEMENS

Data sheet

6ES7223-1BM22-0XA0



Spare part SIMATIC S7-200, Digital I/O EM 223, only for S7-22X CPU, 32DI 24 V DC, Sink/Source, 32DO 24 V DC; 0.75 A/channel, SOURC

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 external supply (24 V DC), max.	128 mA; ON: 4 mA/input
from backplane bus 5 V DC, max.	240 mA
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"	15 V DC to 30 V DC
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 / header	
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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