SIEMENS

Data sheet

6ES7223-1PM22-0XA0



 *** Spare part *** SIMATIC S7-200, Digital I/O EM 223, only for S7-22X CPU, 32 DI 24 V DC, Sink/Source, 32 DO relay, 2 A/channel

Figure similar

William	
Supply voltage	
Load voltage L+	
 Rated value (DC) 	24 V
 permissible range, lower limit (DC) 	5 V
 permissible range, upper limit (DC) 	30 V
Load voltage L1	
 Rated value (AC) 	230 V; 24V AC to 230V AC
 permissible range, lower limit (AC) 	5 V
 permissible range, upper limit (AC) 	250 V
Input current	
from external supply (24 V DC), max.	128 mA
from backplane bus 5 V DC, max.	205 mA
from coil current, max.	9 mA; for each output on signal "1"
Power loss	
Power loss, typ.	13 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; Relays
Short-circuit protection	No
Output voltage	
• for signal "0", max.	0.1 V; with 10 kOhm load
● for signal "1", min.	L+/L1
Output current	
for signal "1" rated value	2 000 mA
Total current of the outputs (per group)	
all mounting positions	
 Current per conductor/group, max. 	2 A; 10 A per group
Relay outputs	

Switching capacity of contacts - with inductive load, max on lamp load, max on lamp load, max with resistive load, max. 2 2 A; each output Cable length • shielded, max. • unshielded, max. • unshielded, max. 500 m • unshielded, max. 500 m - veriff sensor - permissible quiescent current (2-wire sensor), max. Potential separation digital inputs • Potential separation digital inputs • Potential separation digital inputs • Potential separation digital outputs • Detential separation digital outputs • Potential separation digital outputs • Detential separation digital outputs • Potential separation digital outputs • Detential separation digital outputs • Detential separation digital outputs • Potential separation digital outputs • Potentia	 Number of operating cycles, max. 	10 000 000; mechanically 10 million, at rated load voltage 100 000	
on lamp load, max with resistive load, max. 2 A; each output Cable length • shielded, max. • unshielded, max. • unshielded, max. • unshielded, max. • 2-wire sensor Connectable encoders • 2-wire sensor permissible quiescent current (2-wire sensor), max. Potential separation Potential separation digital inputs • Potential separation digital outputs • between the channels, in groups of Potential separation digital outputs • Potential separation digital outputs • Potential separation digital outputs • between the channels, in groups of 11; 11/11/10 Isolation Isolation tested with 500 V AC connection method Plug-in I/O terminals Yes Dimensions Width 196 mm Height 80 mm Depth 62 mm Weights	Switching capacity of contacts		
— with resistive load, max. 2 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 • Potential separation digital inputs • between the channels, in groups of 16 Potential separation digital outputs • Potential separation digital outputs • Potential separation digital outputs • Potential se	— with inductive load, max.	0.75 A; each output	
Cable length • shielded, max. • unshielded, max. 150 m Encoder Connectable encoders • 2-wire sensor — permissible quiescent current (2-wire sensor), max. Potential separation Potential separation digital inputs • Potential separation digital outputs • Potential separation digit	— on lamp load, max.	200 W; 30 W with DC, 200 W with AC	
shielded, max. unshielded, max. 150 m Encoder Connectable encoders 2-wire sensor — permissible quiescent current (2-wire sensor), max. Potential separation Potential separation digital inputs Potential separation digital inputs • Potential separation digital inputs • between the channels, in groups of Potential separation digital outputs • Potential separation digital inputs • Potential separation digital inputs • Potential separation digital outputs • Potential separation digital	— with resistive load, max.	2 A; each output	
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 • between the channels, in groups of 16 Potential separation digital outputs • Series Relays • between the channels, in groups of 11; 11/11/10 Isolation Isolation Isolation tested with 500 V AC connection method Plug-in I/O terminals Pimensions Width 196 mm Height 80 mm Depth 62 mm Weights	Cable length		
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Potential separation digital outputs Yes; Relays 11; 11/11/10 Isolation Isolation tested with 500 V AC Connection method Plug-in I/O terminals Yes Dimensions Width 196 mm Height 80 mm Depth Depth 62 mm Weights	 Potential separation digital inputs 	Yes; Optocoupler	
● Potential separation digital outputs ● between the channels, in groups of 11; 11/11/10 Isolation Isolation tested with 500 V AC connection method Plug-in I/O terminals Yes Dimensions Width 196 mm Height 80 mm Depth 62 mm Weights	 between the channels, in groups of 	16	
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Isolation tested with 500 V AC connection method Plug-in I/O terminals Yes Dimensions Width 196 mm Height 80 mm Depth 62 mm Weights	 between the channels, in groups of 	11; 11/11/10	
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Plug-in I/O terminals Yes Dimensions 196 mm Height 80 mm Depth 62 mm Weights 62 mm	Isolation tested with	500 V AC	
Dimensions Width 196 mm Height 80 mm Depth 62 mm Weights ————————————————————————————————————	connection method		
Width 196 mm Height 80 mm Depth 62 mm Weights ————————————————————————————————————	Plug-in I/O terminals	Yes	
Height 80 mm Depth 62 mm Weights	Dimensions		
Depth 62 mm Weights	Width	196 mm	
Weights	Height	80 mm	
	Depth	62 mm	
Weight, approx. 580 g	Weights		
	Weight, approx.	580 g	

last modified:

5/22/2024