SIEMENS

Data sheet 6ES7253-1AA22-0XA0

SIMATIC S7-200, EM 253 POSITIONING MODULE, 200 KHZ, FOR CONTROLLING STEPPER OR SERVO DRIVE, OPEN LOOP CONTROL, PROGRAMMING WITH MICRO/WIN



Supply voltage	
permissible range, lower limit (DC)	11 V
permissible range, upper limit (DC)	30 V
Input current	
from supply voltage L+, max.	300 mA; from 12 V DC, 130 mA from 24 V DC
from backplane bus 5 V DC, max.	190 mA
Hardware configuration	
Number of modules per CPU	max. 5 with CPU 226/226XM, max. 3 with CPU 224, max. 1 with CPU 222
Digital inputs	
Number of digital inputs	5
Type	IEC Type 1, active-high
Functions	Stop (STP), reference point switch (RPS), upper limit switch (LMT+), lower limit switch (LMT-), zero point (ZP)
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	STP, RPS, LMT+, LMT- DC 5 V; ZP DC 1 V
• for signal "1"	STP, RPS, LMT+, LMT- DC 15 V; ZP DC 3 V

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Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes; STP, RPS, LMT+, LMT- 0.2 to 12.8 ms; ZP min 2 µs
Cable length	
• shielded, max.	100 m; STP, RPS, LMT+, LMT- 100 m, ZP 10 m
• unshielded, max.	30 m; STP, RPS, LMT+, LMT- 30 m, ZP not recommended
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1 mA
Drive interface	
Signal output I	
• Number	4; optionally RS 422/RS 485 or 5 V DC
• Type	RS 422 / RS 485 (P0+, P0-, P1+, P1-)
• Differential output voltage, min.	2.8 V; RL = 200 ohms
• Pulse frequency	200 kHz; (P0+, P0-, P1+, P1-, P0, P1)
• Cable length, max.	10 m; shielded; 1 m unshielded
Signal output III	
• Type	5 V DC(P0, P1, DIS, CLR)
• Output voltage	30 V DC
• Output current	50 mA; output delay (DIS, CLR) max. 30 µs
Potential separation	
Potential separation digital inputs	
• between the channels	Yes
• between the channels, in groups of	1 (STP, RPS, ZP), 2 (LMT-, LMT+)
Permissible potential difference	
between different circuits	500 V AC
Dimensions	
Width	71.2 mm
Height	80 mm
Depth	62 mm
Weights	
Weight, approx.	190 g

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