

SIEMENS

Product 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 MICROWIN

Supply voltage

permissible range, lower limit (DC)	11 V
permissible range, upper limit (DC)	30 V

Input current

from backplane bus 5 V DC, max.	190 mA
from supply voltage L+, max.	300 mA ; from 12 V DC, 130 mA from 24 V DC

Hardware configuration

Number of modules per CPU	max. 5 with CPU 226/226XM, max. 3 with CPU 224, max. 1 with CPU 222
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Digital inputs

Number/binary 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
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 μ s
Cable length	
Cable length, shielded, max.	100 m ; STP, RPS, LMT+, LMT- 100 m, ZP 10 m
Cable length 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 μ s
Galvanic isolation	
Galvanic isolation 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
Weight	
Weight, approx.	190 g
Status	Jul 17, 2012