SIEMENS

Data sheet 6ES7253-1AA22-0XA0



*** spare part *** SIMATIC S7-200, EM253 positioning expansion module, 200 kHz, for controlling stepper motors or servo drives, open-loop control, programming via 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
Power loss	
Power loss, typ.	2.5 W
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; P-reading
Functions	Stop (STP), reference point switch (RPS), upper limit switch (LMT+), lower limit switch (LMT-), zero point (ZP)
Input characteristic curve in accordance with IEC 61131, type 1	Yes
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 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	
Number of drive interfaces	4; optionally RS 422 / 485 or 5 V DC
Stepper drive	
● Differential output voltage, min.	2.8 V; RL = 200 ohms
● Output current, max.	50 mA
● Pulse frequency	200 kHz
● Cable length, shielded, max.	10 m

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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

Classifications

	Version	Classification
eClass	16	27-24-22-05
eClass	14	27-24-22-05
eClass	12	27-24-22-05
eClass	9.1	27-24-22-05
eClass	9	27-24-22-05
eClass	8	27-24-22-05
eClass	7.1	27-24-22-05
eClass	6	27-24-22-05
ETIM	10	EC001422
ETIM	9	EC001422
ETIM	8	EC001422
ETIM	7	EC001422
IDEA	4	3567
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval					EMV
CCC	EAC	Confirmation	CE EG-Konf.	UKCA	RCM

Radio Equipment Type Approval Certificate	Test Certificates		Maritime application		
Miscellaneous	Special Test Certificate	Miscellaneous	ABS	BUREAU VERITAS	Lloyd's Register LRS

Maritime application	other				
CCS (China Classification Society)	Miscellaneous	Miscellaneous	Manufacturer Declaration	产品合格 QC PASS	Confirmation

Dangerous goods	Environment

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Transport Information

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