

AS SPARE PART ONLY! SIMATIC S7-300, FUNCTION MODULE FM 357-2 (M80486 CPU) FOR POSITIONING AND PATH CONTROL OF STEPPER AND SERVO MOTORS (4 MEASURING CIRCUITS)



Figure similar

Supply voltage	
Rated value (DC)	24 V
Input current	
from backplane bus 5 V DC, max.	100 mA
Encoder supply	
5 V encoder supply	
• 5 V	Yes
• Output current, max.	210 mA
• Cable length, max.	35 m
24 V encoder supply	
• 24 V	Yes
• Output current, max.	300 mA
• Cable length, max.	100 m
Power loss	
Power loss, typ.	15 W
Storage	
Type of memory	NC program memory
Memory size	750 kbyte
Digital inputs	
Number of digital inputs	18
Functions	4 BERO, 2 probes, 12 for any use
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	-3 to +5V
• for signal "1"	+11 to +30V
Input current	
• for signal "0", max. (permissible quiescent current)	2 mA
• for signal "1", typ.	6 mA; 6 to 30 mA
Digital outputs	
Number of digital outputs	8
Functions	8 for any purpose
Output voltage	
• Rated value (DC)	24 V
• for signal "1", min.	UP -3 V
Output current	
• for signal "1" permissible range for 0 to 55 °C, max.	0.5 A; with UPmax
• for signal "0" residual current, max.	2 mA
Encoder	

Connectable encoders		
• Incremental encoder (symmetrical)	Yes	
• Absolute encoder (SSI)	Yes	
Encoder signals, incremental encoder (symmetrical)		
• Trace mark signals	A, notA, B, notB	
• Zero mark signal	N, notN	
• Input voltage	5 V difference signal (phys. RS 422)	
• Input frequency, max.	1 MHz	
Encoder signals, absolute encoder (SSI)		
• Input signal	5 V difference signal (phys. RS 422)	
• Data signal	DATA, notDATA	
• Clock signal	CL, notCL	
• Telegram length, parameterizable	13, 21 or 25 bit	
• Clock frequency, max.	1.5 Mbit/s	
• Cable length, shielded, max.	250 m; At max. 187.5 kbit/s	
Integrated Functions		
controlled positioning		
• Programmable traverse speed, max.	1 000 m/min	
Drive interface		
Analog drive		
Setpoint signal		
— Rated voltage range	-10 to +10V	
— Output current	-3 to +3 mA	
— Cable length, max.	35 m	
Output controller enable		
— Switching voltage, max.	50 V	
— Switching current, max.	1 A	
— Switching capacity, max.	30 VA	
Stepper drive		
• Differential output voltage, min.	2 V; RL = 100 Ohm	
• Differential output voltage for signal "0", max.	1 V; I _o = 20 mA	
• Differential output voltage for signal "1", min.	3.7 V; I _o = -20 mA	
• Pulse frequency	750 kHz	
• Cable length, shielded, max.	50 m; 35 m in hybrid mode with servo axes	
Potential separation		
Potential separation digital inputs		
• Potential separation digital inputs	Yes	
Potential separation digital outputs		
• Potential separation digital outputs	Yes	
Connection method		
required front connector	1x 40-pin	
Dimensions		
Width	200 mm	
Height	125 mm	
Depth	118 mm	
Weights		
Weight, approx.	1 200 g	
Classifications		
	Version	Classification
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	For use in hazardous locations	Maritime application
---------------------------------	---------------------------------------	-----------------------------

[Miscellaneous](#)



[China RoHS](#)



Maritime application



[NK / Nippon Kaiji Kyokai](#)



last modified:

11/25/2025