SIEMENS

Data sheet 6ES7357-4AH01-0AE0

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
Memory	
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	

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● 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; Io = 20 mA
● Differential output voltage for signal "1", min.	3.7 V; Io = -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	9	EC001422
ETIM	8	EC001422
ETIM	7	EC001422

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IDEA	4	3567
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval		For use in hazard-ous locations	Maritime application		
Miscellaneous	KC	UL	BUREAU VERITAS	DNV	NK / Nippon Kaiji Ky-okai

Maritime application

PRS

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