

SIEMENS

Product data sheet

6ES7357-4AH01-0AE0

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



Supply voltage	
24 V DC	Yes
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	
Power consumption, typ.	24 W

Memory	
NC program memory	750 kbyte
Digital inputs	
Number/binary inputs	18
Functions	4 Bero, 2 probes, 12 for any use
Input voltage	
Rated value, DC	24 V
for signal "0"	-3 to +5 V
for signal "1"	11 to 30 V
Input current	
for signal "0", max. (permissible quiescent current)	2 mA
for signal "1", typ.	6 mA ; 6 to 30 mA
Digital outputs	
Number/binary 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 signal	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
Message frame 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
Positioning	
Programmable traverse speed, max.	1000 m/min
Drive interface	
Signal output I	
Type	5 V difference signal (phys. RS 422)
Function	Direction , enable, clock pulse
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, max.	50 m ; 35 m in hybrid mode with servo axes
Signal output II	
Type	Controller release (contact), FM-READY output (contact)
Function	Drive disconnection for operation via contact relay, Data set ready for link with Emergency STOP
Load	1 A/50 V/30 VA DC
Signal output III	
Type	Analog output
Function	Drive interface for analog drives: setpoint output for drive
Output voltage	-10 to +10 V
Output current	-3 to +3 mA
Cable length, max.	35 m
Galvanic isolation	
Galvanic isolation digital inputs	
Galvanic isolation digital inputs	Yes
Galvanic isolation digital outputs	
Galvanic isolation digital outputs	Yes
Degree and class of protection	

IP20	Yes
Connection method	
required front connector	1x 40-pin
Dimensions	
Width	200 mm
Height	125 mm
Depth	118 mm
Weight	
Weight, approx.	1200 g
Status	Jul 17, 2012