

SIEMENS

Product data sheet

6ES7354-1AH01-0AE0


SIMATIC S7-300,
FM 354 SUBMODULE FOR POSITIONING WITH
SERVOMOTORS,
MODULE EXCHANGE W/O PG,
PREQUISITE STEP7 V3.1 INCL. CONFIG. PACKAGE
ON CD

Supply voltage	
24 V DC	Yes
Input current	
Current consumption, max.	350 mA
Encoder supply	
5 V encoder supply	
5 V	Yes
Output current, max.	220 mA
Cable length, max.	35 m
24 V encoder supply	
24 V	Yes
Output current, max.	300 mA
Cable length, max.	100 m
Digital inputs	
Number/binary inputs	4

Functions	Reference cams, flying actual value setting, flying measurement, start/stop positioning, external block change
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 15 mA
Digital outputs	
Number/binary outputs	4
Functions	Position reached: stop, axis travels forward, axis travels back, change M-function M97, change M-function M98, start enable, direct output via data record
Functionality/short-circuit strength	Yes
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.	0.6 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.	1.25 Mbit/s
Cable length, shielded, max.	100 m ; 10 m at 1.25 Mbit/s, 100 m at max. 125 kbit/s
Drive interface	
Signal input I	
Type	Input loop controller message, isolated (optocoupler)
Function	"Drive ready"
Input voltage, rated value (DC)	24 V
Input voltage, for signal "0"	-3 to +5 V
Input voltage, for signal "1"	15 to 30 V
Input current, for signal "1"	2 to 6 mA
Signal output II	
Type	Output closed-loop controller enable (contact)
Function	Drive disconnection for operation via contact relay
Load	1 A/50 V/30 VA DC
Signal output III	
Type	Analog output
Function	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	No
Galvanic isolation digital outputs	
Galvanic isolation digital outputs	No
Degree and class of protection	
IP20	Yes
Ambient conditions	
Operating temperature	
Min.	0 °C

max.	55 °C
Storage/transport temperature	
Min.	-40 °C
max.	70 °C
Relative humidity	
Humidity class F	Yes
Connection method	
required front connector	1x 20-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	118 mm
Weight	
Weight, approx.	550 g
Status	Jul 17, 2012