

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

S7-300

6ES7353-1AH01-0AE0

FM 353 POSITIONING MODULE

Used with the applicable SIMATIC S7-300 function modules configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official product documentation

SIMATIC S7-300, FUNCTION MODULE FM 353, FOR POSITIONING WITH STEPPER MOTOR, MODULE EXCHANGE W/O PG, PREREQUISITE STEP7 V3.1 INCL. CONFIG. PACKAGE ON CD



Supply voltage	
Rated value (DC)	Yes
• 24 V DC	
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption, max.	300 mA
Power loss	
Power loss, typ.	7 W
Digital inputs	
Number of digital inputs	4; + 1 input for message signal
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 +5V
• for signal "1"	+11 to +30V
Input current	

• for signal "0", max. (permissible quiescent current) • for signal "1", typ.	2 mA 6 mA; 6 to 15 mA
Digital outputs	
Number of digital 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
Short-circuit protection	Yes
Output voltage	
• Rated value (DC) • for signal "1", min.	24 V UP -3 V
Output current	
• for signal "1" permissible range for 0 to 55 °C, max. • for signal "0" residual current, max.	0.6 A; with UPmax 2 mA
Drive interface	
Signal Input	
• Function	"Power section ready"
Stepper drive	
• Differential output voltage, min. • Differential output voltage for signal "0", max. • Differential output voltage for signal "1", min. • Cable length, shielded, max.	2 V; RL = 100 Ohm 1 V; Io = 20 mA 3.7 V; Io = -20 mA 35 m
Potential separation	
Potential separation digital inputs	
• Potential separation digital inputs	No
Potential separation digital outputs	
• Potential separation digital outputs	No
Degree and class of protection	
Degree of protection acc. to EN 60529	
• IP20	Yes
Ambient conditions	
Ambient temperature during operation	
• min. • max.	0 °C 55 °C
Ambient temperature during storage/transportation	
• min. • max.	-40 °C 70 °C
Connection method	