

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
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • Rated value (DC) 	24 V
<ul style="list-style-type: none"> • for signal "0" 	-3 to +5V
<ul style="list-style-type: none"> • 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 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)	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

Drive interface

Signal Input	
• Function	"Power section ready"
Stepper drive	
• Differential output voltage, min.	2 V; RL = 100 Ohm
• Differential output voltage for signal "0", max.	1 V; lo = 20 mA
• Differential output voltage for signal "1", min.	3.7 V; lo = -20 mA
• Cable length, shielded, max.	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.	0 °C
• max.	55 °C
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C

Connection method

required front connector	1x 20-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	118 mm
Weights	
Weight, approx.	500 g
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