



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)	24 V
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"> <li>Rated value (DC)</li> <li>for signal "0"</li> <li>for signal "1"</li> </ul>	24 V -3 to +5V +11 to +30V
Input current	
<ul style="list-style-type: none"> <li>for signal "0", max. (permissible quiescent current)</li> <li>for signal "1", typ.</li> </ul>	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	
<ul style="list-style-type: none"> <li>Rated value (DC)</li> <li>for signal "1", min.</li> </ul>	24 V UP -3 V
Output current	
<ul style="list-style-type: none"> <li>for signal "1" permissible range for 0 to 55 °C, max.</li> <li>for signal "0" residual current, max.</li> </ul>	0.6 A; with UPmax 2 mA
Drive interface	
Signal Input	
<ul style="list-style-type: none"> <li>Function</li> </ul>	"Power section ready"
Stepper drive	
<ul style="list-style-type: none"> <li>Differential output voltage, min.</li> <li>Differential output voltage for signal "0", max.</li> <li>Differential output voltage for signal "1", min.</li> <li>Cable length, shielded, max.</li> </ul>	2 V; RL = 100 Ohm 1 V; I <sub>o</sub> = 20 mA 3.7 V; I <sub>o</sub> = -20 mA 35 m
Potential separation	
Potential separation digital inputs	

• Potential separation digital inputs	No
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<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
• min.	0 °C
• max.	55 °C
<b>Ambient temperature during storage/transportation</b>	
• min.	-40 °C
• max.	70 °C
<b>connection method</b>	
required front connector	1x 20-pin
<b>Dimensions</b>	
Width	80 mm
Height	125 mm
Depth	118 mm
<b>Weights</b>	
Weight, approx.	500 g

**last modified:** 5/23/2024 