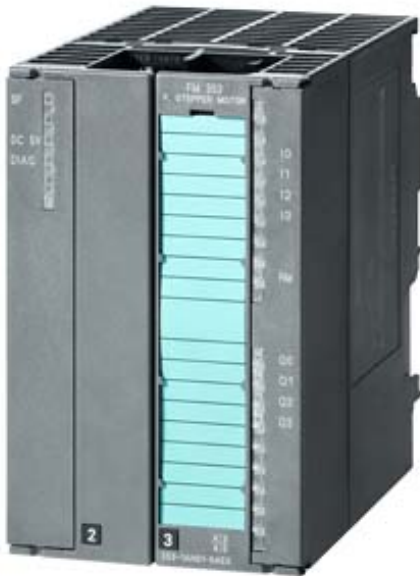


SIMATIC S7-300, FUNCTION MODULE FM 353, FOR POSITIONING WITH STEPPER MOTOR, MODULE EXCHANGE W/O PG, PREREQUISITE STEP7 V3.1 INCL. CONFIG. PACKAGE ON CD



Supply voltage	
Rated value (DC)	Yes
<ul style="list-style-type: none"> <li>• 24 V DC</li> </ul>	
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	

- 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
<b>Output voltage</b>	
• Rated value (DC)	24 V
• for signal "1", min.	UP -3 V
<b>Output current</b>	
• 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

<b>Signal Input</b>	
• Function	"Power section ready"
<b>Stepper drive</b>	
• 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

<b>Potential separation digital inputs</b>	
• Potential separation digital inputs	No
<b>Potential separation digital outputs</b>	
• Potential separation digital outputs	No

### Degree and class of protection

<b>Degree of protection acc. to EN 60529</b>	
• IP20	Yes

### Ambient conditions

<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

### Connection method

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
<b>last modified:</b>	03/24/2018