

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



Supply voltage	
Rated value (DC)	
<ul style="list-style-type: none"> <li>• 24 V DC</li> </ul>	Yes
Input current	
Current consumption, max.	350 mA
Encoder supply	
5 V encoder supply	
<ul style="list-style-type: none"> <li>• 5 V</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Output current, max.</li> </ul>	220 mA
<ul style="list-style-type: none"> <li>• Cable length, max.</li> </ul>	35 m
24 V encoder supply	
<ul style="list-style-type: none"> <li>• 24 V</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Output current, max.</li> </ul>	300 mA
<ul style="list-style-type: none"> <li>• Cable length, max.</li> </ul>	100 m
Power loss	
Power loss, typ.	8 W
Digital inputs	

Number of digital inputs	4
Functions	Reference cams, flying actual value setting, flying measurement, start/stop positioning, external block change
<b>Input voltage</b>	
<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
<b>Input current</b>	
<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

<b>Digital outputs</b>	
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>	
<ul style="list-style-type: none"> <li>Rated value (DC)</li> <li>for signal "1", min.</li> </ul>	24 V UP -3 V
<b>Output current</b>	
<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

<b>Encoder</b>	
<b>Connectable encoders</b>	
<ul style="list-style-type: none"> <li>Incremental encoder (symmetrical)</li> <li>Absolute encoder (SSI)</li> </ul>	Yes Yes
<b>Encoder signals, incremental encoder (symmetrical)</b>	
<ul style="list-style-type: none"> <li>Trace mark signals</li> <li>Zero mark signal</li> <li>Input voltage</li> <li>Input frequency, max.</li> </ul>	A, notA, B, notB N, notN 5 V difference signal (phys. RS 422) 1 MHz
<b>Encoder signals, absolute encoder (SSI)</b>	
<ul style="list-style-type: none"> <li>Input signal</li> <li>Data signal</li> <li>Clock signal</li> <li>Telegram length, parameterizable</li> <li>Clock frequency, max.</li> <li>Cable length, shielded, max.</li> </ul>	5 V difference signal (phys. RS 422) DATA, notDATA CL, notCL 13, 21 or 25 bit 1.25 Mbit/s 100 m; 10 m at 1.25 Mbit/s, 100 m at max. 125 kbit/s

<b>Drive interface</b>	
<b>Signal Input</b>	

<ul style="list-style-type: none"> <li>• Type</li> <li>• Function</li> <li>• Input voltage, rated value (DC)</li> <li>• Input voltage for signal "0"</li> <li>• Input voltage for signal "1"</li> <li>• Input current, for signal "1"</li> </ul>	Input loop controller message, isolated (optocoupler) "Drive ready" 24 V -3 to +5V +15 to +30V 2 to 6 mA
<b>Analog drive</b>	
<b>Setpoint signal</b>	
— Rated voltage range	-10 to +10V
— Output current	-3 to +3 mA
— Cable length, max.	35 m
<b>Output controller enable</b>	
— Switching voltage, max.	50 V
— Switching current, max.	1 A
— Switching capacity, max.	30 V·A
<b>Potential separation</b>	
<b>Potential separation digital inputs</b>	
• Potential separation digital inputs	No
<b>Potential separation digital outputs</b>	
• Potential separation digital outputs	No
<b>Degree and class of protection</b>	
Degree of protection acc. to EN 60529	
• IP20	Yes
<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.	550 g
<b>last modified:</b>	10/17/2018