



Figure similar

SIMATIC S7-300, FM 351 POSITIONING MODULE FOR RAPID/  
CREEP FEED DRIVE INCL. CONFIG. PACKAGE ON CD

### Supply voltage

Rated value (DC)	
<ul style="list-style-type: none"> <li>• 24 V DC</li> </ul>	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
<b>Load voltage L+</b>	
<ul style="list-style-type: none"> <li>• Rated value (DC)</li> </ul>	24 V
<ul style="list-style-type: none"> <li>• permissible range, lower limit (DC)</li> </ul>	20.4 V
<ul style="list-style-type: none"> <li>• permissible range, upper limit (DC)</li> </ul>	28.8 V

### Input current

Current consumption, max.	350 mA
from backplane bus 5 V DC, max.	150 mA; max.

### Encoder supply

<b>5 V encoder supply</b>	
<ul style="list-style-type: none"> <li>• 5 V</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Output current, max.</li> </ul>	350 mA
<ul style="list-style-type: none"> <li>• Cable length, max.</li> </ul>	32 m
<b>24 V encoder supply</b>	
<ul style="list-style-type: none"> <li>• 24 V</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Output current, max.</li> </ul>	400 mA; Per channel
<ul style="list-style-type: none"> <li>• Cable length, max.</li> </ul>	100 m

### Digital inputs

Number of digital inputs	8
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Functions	Reference cams, reversing cams, flying actual value setting, start/stop positioning
<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>	
for 2-wire sensor	
— for signal "0", typ.	2 mA
— for signal "1", typ.	6 mA
<b>Digital outputs</b>	
Number of digital outputs	8
Functions	Rapid traverse, creep, run right, run left
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 - 0.8 V
<b>Output current</b>	
<ul style="list-style-type: none"> <li>• for signal "1" permissible range for 0 to 60 °C, min.</li> <li>• for signal "1" permissible range for 0 to 60 °C, max.</li> <li>• for signal "0" residual current, max.</li> </ul>	5 mA; with UPmax 600 mA; with UPmax 0.5 mA
<b>Encoder</b>	
<b>Connectable encoders</b>	
<ul style="list-style-type: none"> <li>• Incremental encoder (symmetrical)</li> <li>• Incremental encoder (asymmetrical)</li> <li>• Absolute encoder (SSI)</li> <li>• 2-wire sensor               <ul style="list-style-type: none"> <li>— Permissible quiescent current (2-wire sensor), max.</li> </ul> </li> </ul>	Yes Yes Yes Yes 2 mA; on signal "0", max. 2 mA; on signal "1", max. 6 mA
<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 signal</li> <li>• Input frequency, max.</li> </ul>	A, notA, B, notB N, notN 5 V difference signal (phys. RS 422) 0.5 MHz
<b>Encoder signals, incremental encoder (asymmetrical)</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, B N 24 V 50 kHz; 50 kHz for 25 m cable length; 25 kHz for 100 m cable length

Encoder signals, absolute encoder (SSI)	
• Input signal	5 V difference signal (phys. RS 422)
• Data signal	DATA, notDATA
• Clock signal	CL, notCL
• Message frame length, parameterizable	13 or 25 bit
• Clock frequency, max.	1.5 MHz
• Gray code	Yes
• Cable length, shielded, max.	200 m; At max. 188 kHz

Galvanic isolation	
Galvanic isolation digital inputs	
• Galvanic isolation digital inputs	Yes
Galvanic isolation digital outputs	
• Galvanic isolation digital outputs	Yes

Degree and class of protection	
Degree of protection to EN 60529	
• IP20	Yes

Ambient conditions	
Ambient temperature in operation	
• Min.	0 °C
• max.	60 °C
Storage/transport temperature	
• Min.	-40 °C
• max.	70 °C
Relative humidity	
• Humidity class F	Yes

Connection method	
required front connector	1x 20-pin

Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm

Weights	
Weight, approx.	550 g
<b>last modified:</b>	12.03.2015