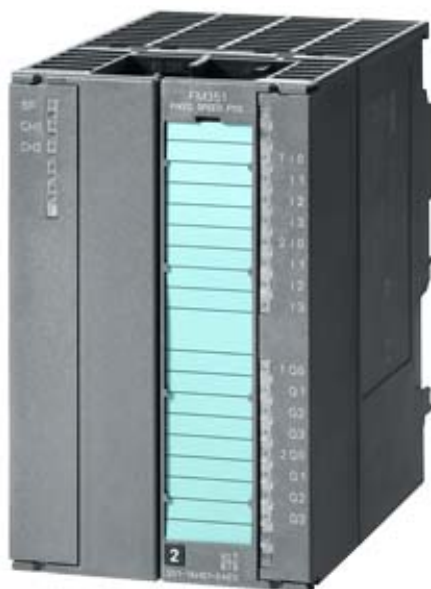


SIEMENS

Product data sheet

6ES7351-1AH02-0AE0


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

Supply voltage

24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V

Load voltage L+

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

Encoder supply

5 V encoder supply

5 V	Yes
Output current, max.	350 mA

Cable length, max.	32 m
24 V encoder supply	
24 V	Yes
Output current, max.	400 mA ; Per channel
Cable length, max.	100 m
Digital inputs	
Number/binary inputs	8
Functions	Reference cams, reversing cams, flying actual value setting, start/stop positioning
Input voltage	
Rated value, DC	24 V
for signal "0"	-3 to +5 V
for signal "1"	11 to 30 V
Input current	
for 2-wire sensor	
for signal "0", typ.	2 mA
for signal "1", typ.	6 mA
Digital outputs	
Number/binary outputs	8
Functions	Rapid traverse, creep, run right, run left
Functionality/short-circuit strength	Yes
Output voltage	
Rated value (DC)	24 V
for signal "1", min.	UP - 0.8 V
Output current	
for signal "1" permissible range for 0 to 60 °C, min.	5 mA ; with UPmax
for signal "1" permissible range for 0 to 60 °C, max.	600 mA ; with UPmax
for signal "0" residual current, max.	0.5 mA
Encoder	
Connectable encoders	
Incremental encoder (symmetrical)	Yes
Incremental encoder (asymmetrical)	Yes
Absolute encoder (SSI)	Yes

2-wire sensor	Yes
Permissible quiescent current (2-wire sensor), max.	2 mA ; on signal "0", max. 2 mA; on signal "1", max. 6 mA
Encoder signals, incremental encoder (symmetrical)	
Trace mark signals	A, notA, B, notB
Zero mark signal	N, notN
Input signal	5 V difference signal (phys. RS 422)
Input frequency, max.	0.5 MHz
Encoder signals, incremental encoder (asymmetrical)	
Trace mark signals	A, B
Zero mark signal	N
Input voltage	24 V
Input frequency, max.	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	
IP20	Yes
Ambient conditions	
Operating temperature	
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
Weight	
Weight, approx.	550 g
Status	Jul 17, 2012