SIEMENS

Data sheet

6ES7350-1AH03-0AE0



SIMATIC S7-300, Counter module FM 350-1 for S7-300, Counter functions up to 500 kHz 1 channel for connection of 5 V and 24 V incremental encoders Isochronous mode; Measuring range types incl. configuration package on CD

Supply voltage		
Auxiliary voltage 1L+, load voltage 2L+		
Rated value (DC) 24 V		
permissible range, lower limit (DC) 20.4 V; Dynamic	2 18 5 V	
 permissible range, upper limit (DC) 28.8 V; dynamic 		
Input current		
from load voltage 1L+ (without load), max. 40 mA		
from backplane bus 5 V DC, max. 160 mA		
Encoder supply		
5 V encoder supply • 5 V Yes: 5.2 V ±2 %		
Output current, max. 300 mA		
24 V encoder supply • 24 V Yes: 1L+ (-3 V)		
Output current, max. 400 mA		
Power loss		
Power loss, typ. 4.5 W		
Digital inputs		
Number of digital inputs 3		
Functions 1 for gate start,	1 for gate stop, 1 for setting the counter	
Input voltage		
• for signal "0" -28.8 +5V		
• for signal "1" +11 to +28.8V		
Input current		
• for signal "1", typ. 9 mA		
Digital outputs		
Number of digital outputs 2		
Short-circuit protection Yes; Clocked ele	ectronically	
Limitation of inductive shutdown voltage to 2L+ (-39 V)		
Output voltage		
• for signal "0", max. 3 V		
• for signal "1", min. 2L+ (-1,5 V)		
Output current		
• for signal "1" rated value 0.5 A		
• for signal "1" permissible range for 0 to 60 °C, min. 5 mA		
• for signal "1" permissible range for 0 to 60 °C, max. 0.6 A		
Output delay with resistive load		
• "0" to "1", max. 300 µs		
Encoder		

Connectable encoders	
 Incremental encoder (symmetrical) 	Yes; With 2 pulse trains offset by 90°
 Incremental encoder (asymmetrical) 	Yes
• 24 V initiator	Yes
 24 V directional element 	Yes; 1 pulse train, 1 direction level
Counter	
Number of counter inputs	1; 32 bit or ±31 bit
Counter input 5 V	
• Туре	RS 422
 Terminating resistor 	220 Ω
 Differential input voltage 	1,3 V
Counting frequency, max.	500 kHz
Counter input 24 V	
 Input voltage for signal "0" 	-28.8 +5V
 Input voltage for signal "1" 	+11 to +28.8V
 Input current for signal "1", typ. 	9 mA
 Counting frequency, max. 	200 kHz
 Minimum pulse width 	2.5 µs
Potential separation	
Potential separation digital inputs	
 between the channels and backplane bus 	Yes; Optocoupler
Potential separation digital outputs	
 between the channels and backplane bus 	Yes; Optocoupler
Potential separation counter	
 between the channels and backplane bus 	Yes; Optocoupler
Isolation	
Isolation tested with	500 V
connection method / header	
required front connector	1x 20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	250 g
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