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 18.5 V	
• permissible range, upper limit (DC)	28.8 V; dynamic 30.2 V	
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 electronically	
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	
• Type	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	
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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