

6ES7350-2AH00-0AE0

FM350-2, COUNTER MOD. 8 CHANNELS, 20KHZ

Technical data

Supply voltage	SIMATIC S7-300, COUNTER MODULE FM 350-2, 8 CHANNELS, 20 KHZ, 24V ENCODER FOR COUNTING, MEASURING FREQUENCIES, SPEED MEASUREMENT, PERIOD DURATION MEASUREMENT AND PROPORTIONING INCL. CONFIG. PACKAGE AND ELECTRONIC DOCU ON CD	
Auxiliary voltage 1L+, load voltage 2L+		
• Rated value (DC)	24 V	
• permissible range, lower limit (DC)	20.4 V	
• permissible range, upper limit (DC)	28.8 V	
Input current		
from load voltage L+ (without load), max.	150 mA	
from backplane bus 5 V DC, max.	100 mA	
Encoder supply		
Type of output voltage	NAMUR-encoder supply: 8.2 V ±2 %	
Short-circuit protection	Yes	
Output current		
• Rated value	200 mA	
Power loss		
Power loss, typ.	10 W	
Digital inputs		
Number of digital inputs	8	
Number of NAMUR inputs	8	
Functions	1 each for gate start/ gate stop	
Input voltage		
• for signal "0"	-3 to +5V	
• for signal "1"	11 to 30.2 V	
Input current		
• for signal "0", max. (permissible quiescent current)	2 mA	
• for signal "1", typ.	9 mA	
Input delay (for rated value of input voltage)		
for standard inputs		
— at "0" to "1", max.	50 µs	
Cable length		
• shielded, max.	100 m	
Digital outputs		
Number of digital outputs	8	
Short-circuit protection	Yes	
Limitation of inductive shutdown voltage to	L+ (-40 V)	
Output voltage		
• for signal "1", min.	L+ (-0.8 V)	
Output current		
• for signal "1" rated value	0.5 A	
• for signal "0" residual current, max.	0.5 mA	
Output delay with resistive load		
• "0" to "1", max.	300 µs	
Switching frequency		
• with resistive load, max.	500 Hz	
• with inductive load, max.	0.5 Hz	
Total current of the outputs (per group)		
horizontal installation		
— up to 40 °C, max.	4 A	
— up to 60 °C, max.	2 A	
all other mounting positions		
— up to 40 °C, max.	2 A	
Cable length		
• shielded, max.	600 m	
• unshielded, max.	100 m	
Encoder		
Connectable encoders		
• Incremental encoder (asymmetrical)	Yes	
• 24 V initiator	Yes	
• 24 V directional element	Yes	
• NAMUR encoder	Yes	
• 2-wire sensor	Yes	
NAMUR encoder		
• Input signal	to DIN 19 234	
• Input current for signal "0", max.	1.2 mA	
• Input current for signal "1", min.	2.1 mA	
• Input delay, max.	50 µs	
• Input frequency, max.	20 kHz	
• Cable length, shielded, max.	100 m	
Interrupts/diagnostics/status information		
Diagnostics function	Yes; Diagnostic information readable	
Alarms		
• Diagnostic alarm	Yes; Parameterizable	

• Hardware interrupt	Yes; Parameterizable
Diagnostics indication LED	Yes
• Group error SF (red)	
Counter	
Counter input 24 V	
• Number	8; 32 bit or ± 31 bit
• Input voltage for signal "0"	-3 to +5V
• Input voltage for signal "1"	11 to 30.2 V
• Input current for signal "0", max. (permissible quiescent current)	2 mA
• Input current for signal "1", typ.	9 mA
• Input delay, max.	50 μ s
• Counting frequency, max.	20 kHz; 24 V incremental encoder: 10 kHz; 24-V direction encoder: 20 kHz; 24-V initiator: 20 kHz; NAMUR encoder: 20 kHz
• Cable length, max.	100 m
Potential separation	
Potential separation digital inputs	
• between the channels and backplane bus	Yes; and shielding
Potential separation digital outputs	
• between the channels and backplane bus	Yes; and shielding
Potential separation counter	
• between the channels and backplane bus	Yes; and shielding
Connection method	
required front connector	1x 40-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	460 g
last modified:	08/15/2019
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