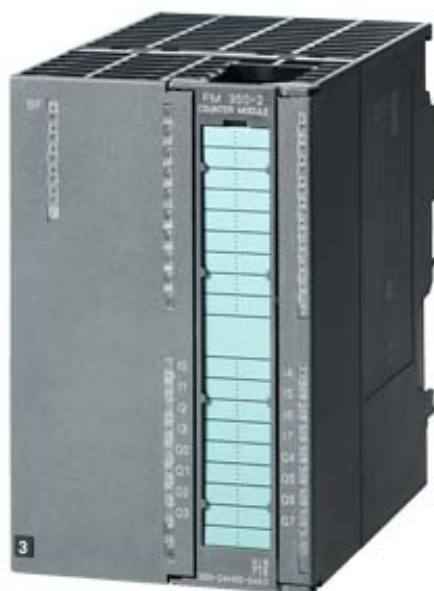


SIEMENS

Product data sheet

6ES7350-2AH01-0AE0


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

Supply voltage

Aux. voltage 1L+, load voltage 2 L+

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

Output voltage	NAMUR-encoder supply: 8.2 V +/-2%
Output current, rated value	200 mA

Output current

Short-circuit protection	Yes
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Power losses

Power loss, typ.	10 W
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Digital inputs	
Number/binary inputs	8
Functions	1 each for gate start/ gate stop
Input voltage	
for signal "0"	-3 to +5 V
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	
Cable length, shielded, max.	100 m
Digital outputs	
Number/binary outputs	8
Functionality/short-circuit strength	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	300 µs
Switching frequency	
with resistive load, max.	500 Hz
with inductive load, max.	0.5 Hz
Aggregate current of 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	
Cable length, shielded, max.	600 m
Cable length 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	
Number of NAMUR inputs	8
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	
Alarms	
Diagnostic alarm	Yes ; Parameterizable
Hardware interrupt	Yes ; Parameterizable
Diagnostic messages	
Diagnostic functions	Yes ; Diagnostic information readable
Diagnostics indication LED	
Group error SF (red)	Yes
Counter	
Counter input 24 V	
Number	8 ; 32 bit or +/-31 bit
Input voltage, for signal "0"	-3 to +5 V
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 µs
Counting frequency, max.	20 kHz ; Incremental encoder: 10 kHz
Cable length, max.	100 m
Galvanic isolation	
Galvanic isolation digital inputs	
between the channels and the backplane bus	Yes ; and shielding
between the channels and the backplane bus (NAMUR)	yes, against backplane bus and shielding
Galvanic isolation digital outputs	
between the channels and the backplane bus	Yes ; and shielding
Galvanic isolation counter	
between the channels and the backplane bus	Yes ; and shielding
Connection method	
required front connector	1x 40-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weight	
Weight, approx.	460 g
Status	Apr 9, 2012