SIEMENS

Data sheet

6AG1350-1AH03-2AE0



SIPLUS S7-300 FM350-1 -25 ... +60 DEGREES C WITH CONFORMAL COATING BASED ON 6ES7350-1AH03-0AE0 . COUNTER MODULE COUNTER FUNCTIONS UP TO 500 KHZ 1 CHANNEL FOR CONNECTING 5V- A. 24V-IINCREMENTAL ENCODER ISOCHRONE MODE MEASUREMENT MODE INCL. CONFIGURING 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	
non-periodic skip		
— Duration	500 ms	
— Recovery time	50 s	
— Value	35 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
Counting range, description	32 bit or ±31 bit
Minimum pulse width, adjustable	Yes; 2.5 or 25 μs
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
Permissible potential difference	
between different circuits	75 V DC/60 V AC
Isolation	
Isolation tested with	500 V
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes; File E239877
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	-25 °C; = Tmin
• max.	60 °C; = Tmax
Extended ambient conditions	
• relative to ambient temperature-atmospheric	Tmin Tmax at 1080 hPa 795 hPa (-1000 m +2000 m) //
pressure-installation altitude	Tmin (Tmax - 10K) at 795 hPa 658 hPa (+2000 m +3500 m) // Tmin (Tmax - 20K) at 658 hPa 540 hPa (+3500 m +5000 m)
Relative humidity	
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
 against biologically active substances / conformity with EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request

 against chemically active substances / conformity with EN 60721-3-3

 against mechanically active substances / conformity with EN 60721-3-3 Yes; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!

Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

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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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