SIEMENS

Data sheet

6ES7331-7NF10-0AB0



SIMATIC S7-300, Analog input SM 331, isolated, 8 AI; +/-5/10V, 1-5 V, +/-20 mA, 0/4 to 20 mA, 16 bit, Single rooting (60 V COM.), 4-channel operation: 10 ms, 8-channel operation: 23-95ms, 1x 40-pole

Figuresimilar

Supply voltage	
Load voltage L+	
 Rated value (DC) 	24 V
Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	200 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	3 W
Analog inputs	
Number of analog inputs	8
permissible input voltage for voltage input (destruction limit), max.	75 V; 35 V continuous, 75 V for max. 1 s (mark to space ratio 1:20)
permissible input current for current input (destruction limit), max.	40 mA
Input ranges	
Voltage	Yes
Current	Yes
Thermocouple	No
 Resistance thermometer 	No
Resistance	No
Input ranges (rated values), voltages	
• 0 to +10 V	No
• 1 V to 5 V	Yes
 Input resistance (1 V to 5 V) 	10 MΩ
• 1 V to 10 V	No
• -1 V to +1 V	No
• -10 V to +10 V	Yes
 Input resistance (-10 V to +10 V) 	10 MΩ
• -2.5 V to +2.5 V	No
 -250 mV to +250 mV 	No
• -5 V to +5 V	Yes
— Input resistance (-5 V to +5 V)	10 MΩ
• -50 mV to +50 mV	No
 -500 mV to +500 mV 	No
• -80 mV to +80 mV	No
Input ranges (rated values), currents	
• 0 to 20 mA	Yes
 Input resistance (0 to 20 mA) 	250 Ω

- Um Ab + 20 m Ab Yes - Input resistance (-20 m A to +20 m A) 250 D		Ne
	• -10 mA to +10 mA	No
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$		
- 4 mA to 20 mA Yes - Input resistance (4 m to 20 mA) 250 Q Input resistance (4 m to 20 mA) 250 Q • Type B No • Type C No • Type C No • Type F No • Type B No • Type C No • Type F No • Type A No • Type N No • Type V No • No 1000 No		
— Input resistance (4 mA to 20 mA) 250 Ω Imput resistance (4 mA to 20 mA) 350 Ω • Type B No • Type C No • Type C No • Type C No • Type F No • Type K No • Type R No • Type R No • Type T No • Type T No • Type TXMTXK(L) to GOST No • Type TXMTXK(L) to GOST No • Type TXMTXK(L) to GOST No • No 100 No • Ni 120 No • Ni 120 No • Ni 120 No • Ni 120 No • No 100 No		
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• Type B No • Type C No • Type C No • Type F No • Type K No • Type K No • Type N No • Type N No • Type N No • Type N No • Type T No • Type TX/TXK(L) to GOST No • Ni 100 No • No No • Pi 1000 No • Oto 500 dms No • Oto 500 dms No • Oto 6000 d		200 12
• Type C No • Type J No • Type J No • Type J No • Type J No • Type N No • Type N No • Type N No • Type T No • Type T No • Type V No • Type T No • Type T No • Type U No • Type I No • Ni 1000 No • Ni 1000 No • Ni 200 No • Pi 1000 No • Pi 1000 No • Pi 1000 No • Di 150 ohms No • Di 50 ohms No		No
No No Type E No Type K No Type K No Type N No Type N No Type N No Type N No Type TAK/TXK(L) to GOST No No Type TXK/TXK(L) to GOST No No Type TXK/TXK(L) to GOST No No No No 100 No Pit100 No Pit200 No Input ranges (rated values), resistors No O to 500 chms No		
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• Type N No • Type R No • Type S No • Type T No • Type T No • Type TXK/TXK(L) to GOST No • No No • Type U No • Cu 10 No • Ni 100 No • Ni 200 No • Ni 500 No • Pi 100 No • Pi 100 No • Pi 200 No • Pi 200 No • Pi 200 No • O to 300 ohms No • O to 300 ohms No • O to 600 ohms		No
• Type S No • Type T No • Type U No • Type TXK/TXK(L) to GOST No Input ranges (rated values), resistance thermometer • • Cu 10 No • Ni 100 No • Ni 200 No • Ni 500 No • Ni 500 No • Ni 500 No • Pi 1000 No • Pi 1000 No • Pi 200 No • Pi 200 No • Pi 200 No • Pi 200 No • Di 150 ohms No • Oto 500 ohms No • Oto 500 ohms No • Oto 500 ohms No • Oto 6000 ohms No • Oto 600 ohms No • Ot	• Type N	No
• Type T No • Type Type TXK/TXK(L) to GOST No • Cu 10 No • Ni 100 No • Ni 120 No • Ni 200 No • Ni 200 No • Ni 200 No • Ni 200 No • Ni 500 No • Ni 500 No • Ni 500 No • Pt 100 No • Di 0 500 ohms No • O to 150 ohms No • O to 150 ohms No • O to 150 ohms No • D to 600 ohms No	• Type R	No
• Type U No • Type TXKTXK(L) to GOST No • Cu 10 No • Cu 10 No • Ni 100 No • Ni 100 No • LG-Ni 1000 No • Ni 100 No • Ni 200 No • Ni 500 No • Pi 100 No • Pi 100 No • Pi 100 No • Pi 500 No Input ranges (rated values), resistors No • O to 500 ohms No • O to 500 ohms No • O to 500 ohms No • O to 600 ohm	• Type S	No
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• LG-Ni 1000No• Ni 120No• Ni 200No• Ni 500No• Ni 500No• Pt 100No• Dt 150 ohmsNo• Ot 0 600 ohmsNo• Ot 0 6000 ohmsNo• Ot 0 6000 ohmsNo• Ot 0 6000 ohmsNo• Ot 0 6000 ohms10 bit Unipolar: 15/15/15/15 bit sign/15 bit + si	• Ni 100	No
• Ni 120No• Ni 200No• Ni 500No• Pr 100No• Pr 100No• Pr 100No• Pr 100No• Pr 200No• Pr 500No• Pr 500NoInput ranges (rated values), resistorsNo• 0 to 150 ohmsNo• 0 to 500 ohmsNo• 0 to 600 ohmsYes 23 /72 / 83 /95 ms• 10 tegration time, parameterizableYes; 23 /72 / 83 /95 ms• 10 tegration time (ms)He channel mode); 95/83/72/23 ms (8-channel mode)• 10 tegration of signal encodersYes• fo		No
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• Pt 100 No • Pt 1000 No • Pt 200 No • Pt 500 No Input ranges (rated values), resistors No • 0 to 150 ohms No • 0 to 500 ohms No • 0 to 600 ohms No • 0 to 6000 ohms No • No • 0 to 6000 ohms • 0 to 6000 ohms No • Integration and conversion time/resolution per channel Yes; 23 / 72 / 83 / 95 ms • Basic conversion time (mes)		
• P1 1000 No • P1 200 No • P1 500 No Input ranges (rated values), resistors No • 0 to 150 ohms No • 0 to 500 ohms No • 0 to 600 ohms No • Resolution with overrange (bit including sign), max. 16 bit; Unipolar: 15/15/15/15 bit; bipolar: 15 bit + sign/15 b		
• Pt 200 No • Pt 500 No Input ranges (rated values), resistors No • 0 to 150 ohms No • 0 to 500 ohms No • 0 to 600 ohms No • Shielded, max. 200 m Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. 16 bit; Unipolar: 15/15/15/15 bit; bipolar: 15 bit + sign/15 bi		
• Pt 500 No Input ranges (rated values), resistors No • 0 to 150 ohms No • 0 to 300 ohms No • 0 to 600 ohms No • O to 600 ohms No • Shielded, max. 200 m Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. 16 bit; Unipolar: 15/15/15/15 bit; bipolar: 15 bit + sign/15 bit + sig		
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Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Integration time, parameterizable • Basic conversion time (ms) • Interference voltage suppression for interference frequency f1 in Hz Encoder Connection of signal encoders • for voltage measurement • for current measurement as 2-wire transducer Yes Ves Errors/accuracles Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • O.1 % Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-)	-	
• Resolution with overrange (bit including sign), max. 16 bit; Unipolar: 15/15/15/15 bit; bipolar: 15 bit + sign/15 bit + si		
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• Basic conversion time (ms) 10 ms (4-channel mode); 95/83/72/23 ms (8-channel mode) • Interference voltage suppression for interference frequency f1 in Hz 400 / 60 / 50 Hz, combinations of 400, 60, 50 Hz Encoder Connection of signal encoders 400 / 60 / 50 Hz, combinations of 400, 60, 50 Hz • for voltage measurement Yes • for current measurement as 2-wire transducer Yes; with external transmitter, current supply; possible with separate supply for transmitter • for current measurement as 4-wire transducer Yes Errors/accuracies 0.1 % Operational error limit in overall temperature range 0.1 % • Current, relative to input range, (+/-) 0.1 % Basic error limit (operational limit at 25 °C) 0.05 %		+ sign/15 bit + sign
• Interference voltage suppression for interference frequency f1 in Hz 400 / 60 / 50 Hz, combinations of 400, 60, 50 Hz Encoder Connection of signal encoders • for voltage measurement Yes • for current measurement as 2-wire transducer Yes; with external transmitter, current supply; possible with separate supply for transmitter • for current measurement as 4-wire transducer Yes • Operational error limit in overall temperature range 0.1 % • Voltage, relative to input range, (+/-) 0.1 % Basic error limit (operational limit at 25 °C) 0.05 %	 Integration time, parameterizable 	Yes; 23 / 72 / 83 / 95 ms
frequency f1 in Hz Encoder Connection of signal encoders • for voltage measurement Yes • for current measurement as 2-wire transducer Yes; with external transmitter, current supply; possible with separate supply for transmitter • for current measurement as 4-wire transducer Yes • for current measurement as 4-wire transducer Yes • for current measurement as 4-wire transducer Yes Errors/accuracies Yes Operational error limit in overall temperature range 0.1 % • Voltage, relative to input range, (+/-) 0.1 % Basic error limit (operational limit at 25 °C) 0.05 %	 Basic conversion time (ms) 	10 ms (4-channel mode); 95/83/72/23 ms (8-channel mode)
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Connection of signal encoders Yes • for voltage measurement Yes; with external transmitter, current supply; possible with separate supply for transmitter • for current measurement as 2-wire transducer Yes; with external transmitter, current supply; possible with separate supply for transmitter • for current measurement as 4-wire transducer Yes Errors/accuracies Yes Operational error limit in overall temperature range 0.1 % • Voltage, relative to input range, (+/-) 0.1 % Basic error limit (operational limit at 25 °C) 0.05 %		
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• Voltage, relative to input range, (+/-) 0.05 %		
		0.05 %
Current, relative to input range, (+/-) 0.05 %	 Current, relative to input range, (+/-) 	0.05 %
Interrupts/diagnostics/status information	Interrupts/diagnostics/status information	

Diagnostics function	Yes; Parameterizable
Alarms	
Diagnostic alarm	Yes; Parameterizable
• Limit value alarm	Yes; Parameterizable all channels (end of cycle interrupt is also supported across modules)
Hardware interrupt	Yes; Parameterizable, channels 0 to 7 (on exceeding limit value), at end of cycle
Diagnoses	
Diagnostic information readable	Yes
Diagnostics indication LED	
 Group error SF (red) 	Yes
Potential separation	
Potential separation analog inputs	
 between the channels 	Yes
 between the channels, in groups of 	2
 between the channels and backplane bus 	Yes
 between the channels and the power supply of the electronics 	Yes
Isolation	
Isolation tested with	500 V AC
connection method / header	
required front connector	40-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	117 mm
Weights	
Weight, approx.	272 g
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