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Data sheet 6ES7288-3AE04-0AA0



Figure similar

SIMATIC S7-200 SMART, Analog input SM AI04, 4 AI, 0...10V,0...5V, +/-5 V, +/-2.5 V, or 0/4-20 mA 11 bit + sign (12 bit ADC)

General information	
Product type designation	SM AI04, AI 4x12 bit
CiR - Configuration in RUN	
Reparameterization possible in RUN	No
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V; -15 / +20 %
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption, typ.	40 mA
from backplane bus 5 V DC, typ.	80 mA
Power loss	
Power loss, typ.	1.5 W
Analog inputs	
Number of analog inputs	4
Input ranges	
● Voltage	Yes; ±10V, ±5V, ±2.5V
● Current	Yes; 0 to 20 mA
● Thermocouple	No
● Resistance thermometer	No
● Resistance	No
Input ranges (rated values), voltages	
● -10 V to +10 V	Yes
— Input resistance (-10 V to +10 V)	9 MΩ
● -2.5 V to +2.5 V	Yes
— Input resistance (-2.5 V to +2.5 V)	9 MΩ
● -5 V to +5 V	Yes
— Input resistance (-5 V to +5 V)	9 MΩ
Input ranges (rated values), currents	
● 0 to 20 mA	Yes
— Input resistance (0 to 20 mA)	250 Ω
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
● Resolution with overrange (bit including sign), max.	12 bit; voltage mode: 11 bit + sign bit, current mode: 11 bit
● Interference voltage suppression for interference frequency f1 in Hz	10 / 50 / 60 / 400 Hz
Smoothing of measured values	

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● Parameterizable	Yes; In 4 stages: 1x, 4x, 16x, 32x cycle time
● Step: None	Yes; 1x
● Step: low	Yes; 4x
● Step: Medium	Yes; 16x
● Step: High	Yes; 32x
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Diagnoses	
● Monitoring the supply voltage	Yes
● Wire break	No
● short-circuit	No
Diagnostics indication LED	
● for status of the inputs	Yes
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
Dimensions	
Width	45 mm
Height	100 mm
Depth	81 mm
Weights	
Weight, approx.	147 g

Classifications

	Version	Classification
eClass	16	27-24-22-01
eClass	14	27-24-22-01
eClass	12	27-24-22-01
eClass	9.1	27-24-22-01
eClass	9	27-24-22-01
eClass	8	27-24-22-01
eClass	7.1	27-24-22-01
eClass	6	27-24-22-01
ETIM	10	EC001420
ETIM	9	EC001420
ETIM	8	EC001420
ETIM	7	EC001420
IDEA	4	3562
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

China RoHS

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