SIEMENS

Data sheet

6ES7134-6JF00-0CA1



SIMATIC ET 200SP, Analog input module, Al 8xRTD/TC 2-wire High Feature suitable for BU type A0, A1, Color code CC00, channel diagnostics, 16 bit, +/-0.1%

Product type designation Al 8xRTD/TC 2-wire HF HW functional status From FS05 Firmware version FW update possible usable BaseUnits Color code for module-specific color identification plate Product function IkM data Isochronous mode Measuring range scalable Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PCS 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision Al 8xRTD/TC 2-wire HF From FS05 V2.1 Yes BU type A0, A1 CC00 Product function Yes; I&M0 to I&M3 No Yes Engineering with V16, V17 / V18 V16, V17 / V18 V5.5 SP3 / V5.5 SP4 V5.5 SP3 / V5.5 SP4 V8.1 SP1 One GSD file each, Revision 3 and 5 and higher PROFINET from GSD version/GSD revision GSDML V2.35
Firmware version FW update possible usable BaseUnits Color code for module-specific color identification plate Product function I&M data Isochronous mode Measuring range scalable Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version STEP 7 configurable/integrated from version PCS 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision V2.1 Yes BU type A0, A1 CC00 Yes; I&M0 to I&M3 No Yes V46, V17 / V18 V16, V17 / V18 V5.5 SP3 / V5.5 SP4 V8.1 SP1 One GSD file each, Revision 3 and 5 and higher
 FW update possible usable BaseUnits Color code for module-specific color identification plate Product function I&M data Isochronous mode Measuring range scalable Yes Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version STEP 7 configurable/integrated from version PCS 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision
usable BaseUnits Color code for module-specific color identification plate Product function I&M data Isochronous mode Measuring range scalable Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version STEP 7 configurable/integrated from version PCS 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision BU type A0, A1 CC00 Yes, I&M0 to I&M3 No Yes Yes V16, V17 / V18 V16, V17 / V18 V16, V17 / V18 V8.1 SP1 One GSD file each, Revision 3 and 5 and higher
Color code for module-specific color identification plate Product function I&M data Isochronous mode Measuring range scalable Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PCS 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision CC00 Yes; I&M0 to I&M3 No Yes V6, V17 / V18 V76, V17 / V18 V76, V17 / V18 V76, V17 / V18 V77 / V18 V78, V78, SP3 / V5,5 SP4 V8.1 SP1 One GSD file each, Revision 3 and 5 and higher
Product function I&M data Isochronous mode Measuring range scalable Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version STEP 7 configurable/integrated from version PCS 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision Yes; I&M0 to I&M3 No Yes; I&M0 to I&M3 Ves Yes V16, V17 / V18 V16, V17 / V18 V5.5 SP3 / V5.5 SP4 V8.1 SP1 One GSD file each, Revision 3 and 5 and higher
 I&M data Isochronous mode Measuring range scalable Yes Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version STEP 7 configurable/integrated from version PCS 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision Yes; I&M0 to I&M3 Yes V16, V17 / V18 V16, V17 / V18 V5.5 SP3 / V5.5 SP4 V8.1 SP1 One GSD file each, Revision 3 and 5 and higher
 Isochronous mode Measuring range scalable Yes Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PCS 7 configurable/integrated from version PCS 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision No V16, V17 / V18 V5.5 SP3 / V5.5 SP4 V8.1 SP1 One GSD file each, Revision 3 and 5 and higher
 Measuring range scalable Fengineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version STEP 7 configurable/integrated from version PCS 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision Yes V16, V17 / V18 V5.5 SP3 / V5.5 SP4 V8.1 SP1 One GSD file each, Revision 3 and 5 and higher
 Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version STEP 7 configurable/integrated from version PCS 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher
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 PCS 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision V8.1 SP1 One GSD file each, Revision 3 and 5 and higher
PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher
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PROFINET from GSD version/GSD revision GSDML V2.35
Operating mode
Oversampling No
MSI No
CiR - Configuration in RUN
Reparameterization possible in RUN Yes
Calibration possible in RUN Yes
Supply voltage
Rated value (DC) 24 V
permissible range, lower limit (DC) 19.2 V
permissible range, upper limit (DC) 28.8 V
Reverse polarity protection Yes
Input current
Current consumption, max. 35 mA
Power loss
Power loss, typ. 0.75 W
Address area
Address space per module
Address space per module, max. 16 byte; + 1 byte for QI information
Hardware configuration
Automatic encoding
Mechanical coding element Yes

Type of mechanical coding element	Type A
Selection of BaseUnit for connection variants	Турол
2-wire connection	BU type A0, A1
	Bo type No, Ni
Analog inputs Number of analog inputs	8
permissible input voltage for voltage input (destruction limit), max.	30 V
Constant measurement current for resistance-type transmitter, typ.	2 mA
Cycle time (all channels), min.	Sum of the basic conversion times and additional processing times (depending on the parameterization of the active channels)
Technical unit for temperature measurement adjustable	Yes; °C/°F/K
Input ranges (rated values), voltages	
• -1 V to +1 V	Yes; 16 bit incl. sign
— Input resistance (-1 V to +1 V)	1 ΜΩ
• -250 mV to +250 mV	Yes; 16 bit incl. sign
— Input resistance (-250 mV to +250 mV)	1 ΜΩ
• -50 mV to +50 mV	Yes; 16 bit incl. sign
— Input resistance (-50 mV to +50 mV)	1 ΜΩ
• -80 mV to +80 mV	Yes; 16 bit incl. sign
— Input resistance (-80 mV to +80 mV)	1 MΩ
Input ranges (rated values), thermocouples	
Type B	Yes; 16 bit incl. sign
— Input resistance (Type B)	1 MΩ
Type C Type C	Yes; 16 bit incl. sign
— Input resistance (Type C)	Tes, To bit fild. Sign
Type E Input resistance (Type E)	Yes; 16 bit incl. sign
— Input resistance (Type E)	1 MΩ
• Type J	Yes; 16 bit incl. sign
— Input resistance (type J)	1 ΜΩ
• Type K	Yes; 16 bit incl. sign
— Input resistance (Type K)	1 ΜΩ
• Type L	Yes; 16 bit incl. sign
— Input resistance (Type L)	1 ΜΩ
• Type N	Yes; 16 bit incl. sign
— Input resistance (Type N)	1 ΜΩ
• Type R	Yes; 16 bit incl. sign
— Input resistance (Type R)	1 ΜΩ
• Type S	Yes; 16 bit incl. sign
— Input resistance (Type S)	1 ΜΩ
• Type T	Yes; 16 bit incl. sign
Input resistance (Type T)	1 ΜΩ
• Type U	Yes; 16 bit incl. sign
— Input resistance (Type U)	1 ΜΩ
Type TXK/TXK(L) to GOST	Yes; 16 bit incl. sign
Input resistance (Type TXK/TXK(L) to GOST)	1 MΩ
Input ranges (rated values), resistance thermometer	
• Ni 100	Yes; 16 bit incl. sign
— Input resistance (Ni 100)	1 MΩ
• Ni 1000	Yes; 16 bit incl. sign
— Input resistance (Ni 1000)	1 MΩ
— Input resistance (Nr 1000) ■ LG-Ni 1000	
	Yes; 16 bit incl. sign 1 $M\Omega$
— Input resistance (LG-Ni 1000)	
• Ni 120	Yes; 16 bit incl. sign
— Input resistance (Ni 120)	1 ΜΩ
• Ni 200	Yes; 16 bit incl. sign
— Input resistance (Ni 200)	1 ΜΩ
● Ni 500	Yes; 16 bit incl. sign
— Input resistance (Ni 500)	1 ΜΩ
• Pt 100	Yes; 16 bit incl. sign
— Input resistance (Pt 100)	1 ΜΩ

• Pt 1000	Yes; 16 bit incl. sign
— Input resistance (Pt 1000)	1 ΜΩ
• Pt 200	Yes; 16 bit incl. sign
— Input resistance (Pt 200)	1 ΜΩ
• Pt 500	Yes; 16 bit incl. sign
— Input resistance (Pt 500)	1 ΜΩ
Input ranges (rated values), resistors	
• 0 to 150 ohms	Yes; 15 bit
— Input resistance (0 to 150 ohms)	1 ΜΩ
• 0 to 300 ohms	Yes; 15 bit
— Input resistance (0 to 300 ohms)	1 ΜΩ
0 to 600 ohms	Yes; 15 bit
— Input resistance (0 to 600 ohms)	1 ΜΩ
• 0 to 3000 ohms	Yes; 15 bit
 Input resistance (0 to 3000 ohms) 	1 ΜΩ
• 0 to 6000 ohms	Yes; 15 bit
 Input resistance (0 to 6000 ohms) 	1 ΜΩ
• PTC	Yes; 15 bit
— Input resistance (PTC)	1 ΜΩ
Thermocouple (TC)	
Temperature compensation	
— parameterizable	Yes
Reference channel of the module	Yes
internal comparison point	Yes; with BaseUnit type A1
Reference channel of the group	Yes
Number of reference channel groups	4; Group 0 to 3
— fixed reference temperature	Yes
Cable length	165
• shielded, max.	200 m; 50 m with thermocouples
Analog value generation for the inputs	200 III, 30 III with thermocouples
Analog value generation for the inputs	
Magaurament principle	integrating (Ciama Dolta)
Measurement principle	integrating (Sigma-Delta)
Integration and conversion time/resolution per channel	
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max.	16 bit
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable	
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time	16 bit
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) additional processing time for wire-break check	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples 16.6 / 50 / 60 Hz
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz Conversion time (per channel)	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz Conversion time (per channel) Smoothing of measured values	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples 16.6 / 50 / 60 Hz 180 / 60 / 50 / (67.5 / 22.5 / 18.75) ms
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples 16.6 / 50 / 60 Hz 180 / 60 / 50 / (67.5 / 22.5 / 18.75) ms 4; None; 4/8/16 times
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples 16.6 / 50 / 60 Hz 180 / 60 / 50 / (67.5 / 22.5 / 18.75) ms
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples 16.6 / 50 / 60 Hz 180 / 60 / 50 / (67.5 / 22.5 / 18.75) ms 4; None; 4/8/16 times
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples 16.6 / 50 / 60 Hz 180 / 60 / 50 / (67.5 / 22.5 / 18.75) ms 4; None; 4/8/16 times Yes
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples 16.6 / 50 / 60 Hz 180 / 60 / 50 / (67.5 / 22.5 / 18.75) ms 4; None; 4/8/16 times Yes
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for resistance measurement with two-wire connection	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples 16.6 / 50 / 60 Hz 180 / 60 / 50 / (67.5 / 22.5 / 18.75) ms 4; None; 4/8/16 times Yes Yes
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for resistance measurement with two-wire	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples 16.6 / 50 / 60 Hz 180 / 60 / 50 / (67.5 / 22.5 / 18.75) ms 4; None; 4/8/16 times Yes
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for resistance measurement with two-wire connection for resistance measurement with three-wire	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples 16.6 / 50 / 60 Hz 180 / 60 / 50 / (67.5 / 22.5 / 18.75) ms 4; None; 4/8/16 times Yes Yes Yes
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for resistance measurement with two-wire connection for resistance measurement with three-wire connection for resistance measurement with four-wire connection	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples 16.6 / 50 / 60 Hz 180 / 60 / 50 / (67.5 / 22.5 / 18.75) ms 4; None; 4/8/16 times Yes Yes Yes No
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for resistance measurement with two-wire connection for resistance measurement with three-wire connection for resistance measurement with four-wire connection for resistance measurement with four-wire connection Frors/accuracies	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples 16.6 / 50 / 60 Hz 180 / 60 / 50 / (67.5 / 22.5 / 18.75) ms 4; None; 4/8/16 times Yes Yes Yes No No
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for resistance measurement with two-wire connection for resistance measurement with three-wire connection for resistance measurement with four-wire connection for resistance measurement with four-wire connection Frrors/accuracies Linearity error (relative to input range), (+/-)	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples 16.6 / 50 / 60 Hz 180 / 60 / 50 / (67.5 / 22.5 / 18.75) ms 4; None; 4/8/16 times Yes Yes Yes No No No
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for resistance measurement with two-wire connection for resistance measurement with three-wire connection for resistance measurement with four-wire connection for resistance measurement with four-wire connection Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-)	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples 16.6 / 50 / 60 Hz 180 / 60 / 50 / (67.5 / 22.5 / 18.75) ms 4; None; 4/8/16 times Yes Yes Yes No No No 0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for resistance measurement with two-wire connection for resistance measurement with three-wire connection for resistance measurement with four-wire connection for resistance measurement with four-wire connection Frrors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min.	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples 16.6 / 50 / 60 Hz 180 / 60 / 50 / (67.5 / 22.5 / 18.75) ms 4; None; 4/8/16 times Yes Yes Yes No No No 0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -50 dB
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for resistance measurement with two-wire connection for resistance measurement with three-wire connection for resistance measurement with four-wire connection for resistance measurement with four-wire connection Frrors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples 16.6 / 50 / 60 Hz 180 / 60 / 50 / (67.5 / 22.5 / 18.75) ms 4; None; 4/8/16 times Yes Yes Yes No No No 0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Basic conversion time, including integration time (ms) — additional processing time for wire-break check Interference voltage suppression for interference frequency f1 in Hz Conversion time (per channel) Smoothing of measured values Number of smoothing levels parameterizable Encoder Connection of signal encoders for voltage measurement for resistance measurement with two-wire connection for resistance measurement with three-wire connection for resistance measurement with four-wire connection for resistance measurement with four-wire connection for resistance measurement with four-wire connection Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input	16 bit Yes 2 ms; In the ranges resistance thermometers, resistors and thermocouples 16.6 / 50 / 60 Hz 180 / 60 / 50 / (67.5 / 22.5 / 18.75) ms 4; None; 4/8/16 times Yes Yes Yes No No No 0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -50 dB

Resistance, relative to input range, (+/-)	0.1 %	
Basic error limit (operational limit at 25 °C)		
 Voltage, relative to input range, (+/-) 	0.05 %	
 Resistance, relative to input range, (+/-) 	0.05 %	
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interference frequency		
 Series mode interference (peak value of interference < rated value of input range), min. 	70 dB; With conversion time 67.5 / 22.5 / 18.75 ms: 40 dB	
 Common mode voltage, max. 	10 V	
 Common mode interference, min. 	90 dB	
Interrupts/diagnostics/status information		
Alarms		
Diagnostic alarm	Yes	
Limit value alarm	Yes; two upper and two lower limit values in each case	
Diagnoses		
 Monitoring the supply voltage 	Yes	
Wire-break	Yes; channel by channel	
Group error	Yes	
 Overflow/underflow 	Yes; channel by channel	
Diagnostics indication LED		
 Monitoring of the supply voltage (PWR-LED) 	Yes; green PWR LED	
 Channel status display 	Yes; green LED	
 for channel diagnostics 	Yes; red LED	
 for module diagnostics 	Yes; green/red DIAG LED	
Potential separation		
Potential separation channels		
 between the channels 	No	
 between the channels and backplane bus 	Yes	
 between the channels and the power supply of the electronics 	Yes	
Permissible potential difference		
between the inputs (UCM)	10 V DC	
Isolation		
Isolation tested with	707 V DC (type test)	
Ambient conditions		
Ambient temperature during operation		
 horizontal installation, min. 	-30 °C	
 horizontal installation, max. 	60 °C	
 vertical installation, min. 	-30 °C	
 vertical installation, max. 	50 °C	
Altitude during operation relating to sea level		
 Installation altitude above sea level, max. 	2 000 m; On request: Installation altitudes greater than 2 000 m	
Dimensions		
Width	15 mm	
Height	73 mm	
Depth	58 mm	
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last modified:

12/28/2021