SIEMENS

Datasheet

6ES7134-6PA00-0BD0



SIMATIC ET 200SP, ANALOG INPUT MODULE, AI ENERGY METER ST, FITS TO BU-TYPE DO, COLOR CODE CC00, CHANNEL DIAGNOSIS,

Product type designation

General information		
Usable BaseUnits	BU type D0, BU20-P12+A0+0B	
Color code for module-specific color identification plate	CC00	
Product function		
Voltage measurement	Yes	
 Current measurement 	Yes	
 Energy measurement 	Yes	
 Frequency measurement 	Yes	
 Active power measurement 	Yes	
 Reactive power measurement 	Yes	
● I&M data	Yes	
• Isochronous mode	No	
Operating mode		
Cyclic measurement	Yes	
Acyclic measurement	Yes	

Supply voltage	
Description	Supply via voltage measurement channel L1
Type of supply voltage	100 - 240 V AC
Relative symmetrical tolerance of the supply voltage	10 %
permissible range, lower limit (AC)	90 V
permissible range, upper limit (AC)	264 V
Line frequency	

47 Hz • permissible frequency range, lower limit 63 Hz • permissible frequency range, upper limit Power Power consumption without expansion module, typ. 0.6 V·A Address area Address space per module 44 byte; 32 byte input / 12 byte output • Address space per module, max. Analog inputs Cycle time (all channels), typ. 50 ms Analog value generation for the inputs Integration and conversion time/resolution per channel 24 bit • Resolution with overrange (bit including sign), max. Interrupts/diagnostics/status information Alarms Yes Diagnostic alarm • Limit value alarm No Diagnostics indication LED Yes Monitoring of the supply voltage (PWR-LED) Yes Channel status display Yes • for channel diagnostics Yes • for module diagnostics **Integrated Functions** Measuring functions · Buffering of measured variables No 44 byte Parameter length **TRMS** • Measuring procedure for voltage measurement **TRMS** • Measuring procedure for current measurement seamless • Type of measured value acquisition Sinusoidal or distorted Curve shape of voltage Operating mode for measured value acquisition - Automatic detection of line frequency No; Parameterizable - Fixation to 50 Hz No; Default setting - Fixation to 60 Hz No Measuring range 45 Hz - Frequency measurement, min. 65 Hz - Frequency measurement, max. Measuring inputs for voltage 230 V - Measurable line voltage between phase and neutral conductor

 Measurable line voltage between the line conductors 	400 V
 Measurable line voltage between phase and neutral conductor, min. 	90 V
Measurable line voltage between phase and neutral conductor, max.	264 V
Measurable line voltage between the line conductors, min.	155 V
 Measurable line voltage between the line conductors, max. 	460 V
 Measurement category for voltage measurement 	CAT III acc. to IEC 61010 Part 1
 Power consumption per phase 	20 mW
Measuring inputs for current	
— Measurable relative current (AC), min.	5 %; Relative to the secondary rated current; 1 A, 5 A
 Measurable relative current (AC), max. 	100 %; Relative to the secondary rated current; 1 A, 5 A
 Continuous current (AC), maximum permissible 	5 A
 Apparent power consumption per phase for measuring range 5 A 	0.6 V·A
 Rated value short-time withstand current restricted to 1 s 	100 A
— Surge strength for 1 s	10 A; for 1 minute
Meter uncertainties	
 Reference condition for measurement accuracy 	Symmetric load, rated current: 20-100%, 50 Hz; active power: LF = 1, reactive power: LF = 0
 for measured variable voltage 	±0.5%
 for measured variable current 	±0.5%
 for measured variable power 	±0.5%
 for measured variable active power 	±0.5%
 for measured variable reactive power 	±0.5%
 for measured variable total active energy 	Class 1 acc. to IEC 62053-21:2003
— for measured variable total reactive energy	Class 2 acc. to IEC 62053-23:2003
Dimensions	
Width	20 mm
Weights	
Weight (without packaging)	45 g
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Other Data for selecting a current transformer	
	1.25 V·A
Burden power current transformer x/1A, min. Burden power current transformer x/5A min.	1.5 V·A
 Burden power current transformer x/5A, min. 	1.0 v /1

• Cable length (terminal-transformer) dependent on Zn and Imax

200 m

last modified:

10.02.2015