

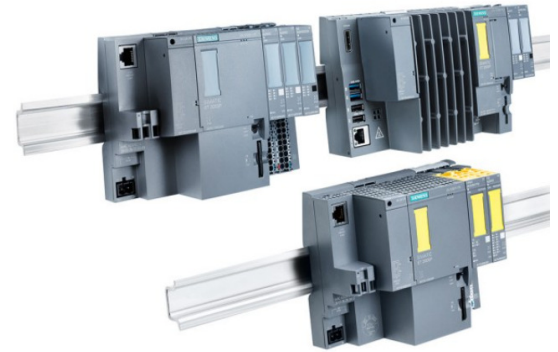
SIMATIC ET 200SP leaves nothing to be desired. Thanks to a convincing system concept, the range of ET 200SP system components has steadily improved and widened in recent years. Find out more about the entire spectrum at a glance:

### Distributed controller based on SIMATIC ET 200SP

The distributed controllers ET 200SP CPUs combine compactness and flexibility. Especially in the medium performance range for machines with distributed intelligence or series machines with limited space, the distributed controllers are the perfect solution for standard and fail-safe applications.

Based on the especially compact design of ET 200SP there are two alternative CPU variants: The PC-based Open Controller with Software PLC or CPUs with classical PLC functionality of the S7-1500 series.

Choose among Standard CPU, Failsafe CPU, Technology CPU and Failsafe Technology CPU when employing the Open Controller or among Standard and Failsafe CPU in two performance classes when using the S7-1500 based solution.



### Interface module IM 155

Interface Modules connect the ET 200SP station to the bus system of your automation landscape. Choose among 5 PROFINET interface modules from basic to High Speed functionality or a High Feature interface module for the proven PROFIBUS field bus.



### SIMATIC ET 200SP Bus Adapter - Flexibility in choosing connection technology

Some interface modules of the SIMATIC ET 200SP have a universal PROFINET interface for Bus Adapters. With the appropriate BusAdapter, the type of connection can be adapted to the requirements of the respective application.

An overview of the essential properties of the PN interfaces is shown in the table below:



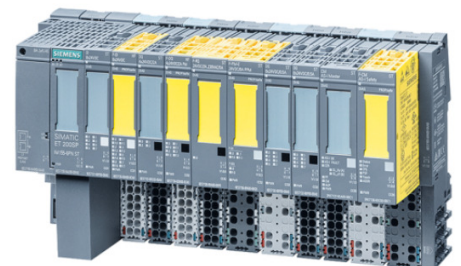
### Failsafe peripheral modules

Failsafe I / O modules enable integration into safety-related systems with SIMATIC Safety Integrated.

The safety functions required for fail-safe operation are integrated in the modules. The modules can be used for safety circuits up to Cat. 4 / SIL 3.

ET 200SP offers failsafe digital and analog inputs as well as failsafe digital outputs.

In addition, there is an F-switch for switching off standard I / O modules and for safely controlling ET 200pro motor starters in conjunction with the ASM 400V module.



## SIMATIC ET 200SP - Signal Modules

Scalable and cost-optimized configuration of a ET 200SP station is achieved by a comprehensive portfolio of digital and analog IO modules.

SIMATIC ET 200SP is about 50% narrower than other distributed peripherals. With its height of 115 millimeters, the system can accommodate 16 channels with single-wire connection (without AUX-plugs). For a 3-wire connection with AUX-plugs the height for 8 channels is 140 millimeters. The depth is 75 millimeters. In order to keep its small size, the power module for load group formation is integrated into the system of SIMATIC ET 200SP.

The peripheral modules are labelled with different colored squares to identify easily the type of module.



- Digital Input Module (DI) 8/16 channels , Color white
- Digital Output Modules (DQ) 4/8/16 channels, Color black
- Analog Input Modules (AI) 4 channels, Color light blue
- Analog Output Modules (AQ) 2/4 channels, Color dark blue

### Digital Input Modules (DI)

The distributed I/O system ET 200SP offers a comprehensive portfolio of digital inputs. There are modules with basic (BA) or standard functionality (ST) as well as enhanced functions (HF High Feature / HS High Speed) .

Digital Inputs for NAMUR sensors and modules for AC voltage of 120 - 230 V complete the portfolio.

The most common modules are also available in packs of ten, which avoids packaging material and speeds up unpacking.



### Enhanced functions with diverse modules

- **Counting for DI 8x24VDC HS**

4 channels for the connection of electronic pulse generators are available in the mode counting with a counting breadth of 32 bits and a maximum frequency of 10 kHz. Extensive parameterization options permit adaptation to the application (upper and lower counter limit, choice flanks, these are counted, 2 reference values to set a status bit, input delay).

- **MSI - Module internal Shared Input for DI 8x24VDC HF**

Input data are provided up to 4 IO controllers. Every controller can grasp it reading on the same channels.

- **Oversampling for DI 8x24VDC HS**

Oversampling – fast equidistant data acquisition or rather issue at moderate CPU-Cycles. Oversampling provides the user with the possibility to determine of two till n readings in synchronous and in constant equal intervals within a PROFINET-Transmit clocking. All n readings collected and transferred then in chronological order for PROFINET-Controller. The readings are available for further evaluation. Oversampling is always useful to use when measurements in a high temporal resolution should be available, but the application does not require a fast reaction to the single readings. A major advantage of Oversampling is that no faster CPU-Cycle is required for recording the high temporal resolution measurements. Typical applications are usually measurements for the detection of quality data and the collection of accurate position data, from which we can derive precise timing control function later. The function Oversampling is also realized for output data. For example the ET 200SP High-Speed-analog module AQ 2xUI HS analog value can be issued more finely.

Module	Description	Technical data	Industry Mall	TIA Selection Tool
DI 8xDC 24V ST	8 standard inputs, modul wise diagnostics	Technical data	6ES7131-6BF01-0BA0 Pack of 10: 6ES7131-6BF01-2BA0	configure and order
DI 16xDC 24V ST	16 standard inputs, modul wise diagnostics	Technical data	6ES7131-6BH01-0BA0 Pack of 10: 6ES7131-6BH01-2BA0	configure and order
DI 8xDC 24V BA	8 basic inputs, modul wise diagnostics	Technical data	6ES7131-6BF01-0AA0 Pack of 10 6ES7131-6BF01-2AA0	configure and order
DI 8xDC 24V SRC BA	8 basic inputs, (source input) modul wise diagnostics	Technical data	6ES7131-6BF61-0AA0	configure and order
DI 8xDC 24V HF	8 High Feature inputs, channel wise diagnostics, Isochronous mode	Technical data	6ES7131-6BF00-0CA0	configure and order
DI 8xNAMUR HF	8 High Feature inputs for NAMUR sensors, modul wise diagnostics	Technical data	6ES7131-6TF00-0CA0	configure and order
DI 8xDC 24V HS	8 High Speed inputs, channel wise diagnostics, fast isochronous DI 4 pulse counters 32Bit, 10 kHz Oversampling	Technical data	6ES7131-6BF00-0DA0	configure and order
DI 4x 120...230VAC ST	4 AC standard inputs, modul wise diagnostics	Technical data	6ES7131-6FD01-0BB1	configure and order

## Digital Output Modules (DQ)

The distributed I/O system ET 200SP offers a comprehensive portfolio of digital outputs. There are modules with basic (BA) or standard functionality (ST) as well as enhanced functions (HF High Feature / HS High Speed) .

Digital outputs with AC voltage up to 230V and relay outputs, NO as well as CO - complete the portfolio.

The most common modules are also available in packs of ten, which avoids packaging material and speeds up unpacking.



### Enhanced functions with diverse modules

- **Pulse width modulation for DQ 4x24VDC/2A HS**

The four outputs provide a pulse-width modulated output signal in this mode. The digital channel is steered for with a pulse-/ break pulse duty ratio of 0.0% to 100.0%. The putting signal is issued in the form of an impulse result of one and out switching impulses digitally. The control of the digital channel is done by a pulse / pause duty cycle, which is cyclically depending on the output value and from which the user program can be updated. The control signal is used as a pulse train by on- and off switching impulse which was digital expensed.

- **Valve actuation for DQ 4x24VDC/2A HS**

A special valve drive function is integrated in the mode DQ. One switches on "1" signal at version a this and the exit for a parameterizable hold time then changes into a pulse break version whose frequency and pulse duty ratio are adjustable. The putting signal is issued in the form of an impulse result of one and out switching impulses digitally

- **MSI - Module internal Shared Input for DQ 8x24VDC/0.5A HF and DQ 4x24VDC/2A HF**

Input data are provided up to 4 IO controllers. Every controller can grasp it reading on the same channels.

- **Oversampling for DQ 4x24VDC/2A HS**

Oversampling – fast equidistant data acquisition or rather issue at moderate CPU-Cycles. Oversampling provides the user with the possibility to determine of two till n readings in synchronous and in constant equal intervals within a PROFINET-Transmit clocking. All n readings collected and transferred then in chronological order for PROFINET-Controller. The readings are available for further evaluation. Oversampling is always useful to use when measurements in a high temporal resolution should be available, but the application does not require a fast reaction to the single readings. A major advantage of Oversampling is that no faster CPU-Cycle is required for recording the high temporal resolution measurements. Typical applications are usually measurements for the detection of quality data and the collection of accurate position data, from which we can derive precise timing control function later.

Module	Description	Technical data	Industry Mall	TIA Selection Tool
DQ 4x DC 24V/2A ST	4x 2A digital outputs, Standard module, module wise diagnostics	Technical data	6ES7132-6BD20-0BA0 pack of 10: 6ES7132-6BD20-2BA0	configure and order
DQ 8x DC 24V/0.5A ST	8x 0.5A digital outputs, Standard module, module wise diagnostics	Technical data	6ES7132-6BF01-0BA0 pack of 10: 6ES7132-6BF01-2BA0	configure and order
DQ 16x DC 24V/0.5A ST	16x 0.5A digital outputs, Standard module, module wise diagnostics	Technical data	6ES7132-6BH01-0BA0 pack of 10: 6ES7132-6BH01-2BA0	configure and order
DQ 8x DC 24V/0.5 A BA	8x 0.5A digital outputs, Basic module, module wise diagnostics	Technical data	6ES7132-6BF01-0AA0 pack of 10: 6ES7132-6BF01-2AA0	configure and order
DQ 8x DC 24V/0.5 A SNK BA	8x 0.5A digital outputs (sink output) , Basic module, module wise diagnostics	Technical data	6ES7132-6BF61-0AA0	configure and order
DQ 8x DC 24V/0.5A HF	8x 0.5A digital outputs, High Feature module, channel wise diagnostics, isochronous operation	Technical data	6ES7132-6BF00-0CA0	configure and order
DQ 4x24...230V AC/2A ST	4 digital outputs each with a value status, Standard module, channel wise diagnostics, isochronous operation	Technical data	6ES7132-6FD00-0BB1 pack of 10: 6ES7132-6FD00-2BB1	configure and order
DQ 4x DC 24V/2A HF	4x 2A digital outputs, High Feature module, channel wise diagnostics, isochronous operation	Technical data	6ES7132-6BD20-0CA0	configure and order
DQ 4x DC 24V/2A HS	4x 2A digital outputs, High Speed module, channel wise diagnostics, fast isochronous DQ with valve actuation, pulse width modulation, oversampling	Technical data	6ES7132-6BD20-0DA0	configure and order
DQ 4x 24..230V AC/2A HF	4x 2A digital outputs, High Feature module, channel wise diagnostics, fast isochronous DQ with valve actuation, pulse width modulation oversampling	Technical data	6ES7132-6FD00-0CU0	configure and order

RQ 4x 120...230VAC/5A NO ST	4x 5A floating relay outputs (NO), Standard module, module wise diagnostics	Technical data	6ES7132-6HD01-0BB1 pack of 10: 6ES7132-6HD01-2BB1	configure and order
RQ 4x 120...230VAC/5A NO MA ST	4 x 5A floating relay outputs (NO) with manual actuation, Standard module, module wise diagnostics	Technical data	6ES7132-6MD00-0BB1	configure and order
RQ 4x 24V DC/2A CO ST	4x 2A floating relay changeover outputs (CO), Standard module, module wise diagnostics	Technical data	6ES7132-6GD51-0BA0	configure and order

## Analog input modules (AI)

The distributed I/O system ET 200SP offers a comprehensive portfolio of analog inputs, modules with standard functionality (ST) as well as enhanced functions (HF High Feature / HS High Speed) Especially for price sensitive applications there are modules available that offer basic functionality (BA).

Option of connecting current, voltage and resistance sensors, as well as thermocouples.

The most common modules are also available in packs of ten, which avoids packaging material and speeds up unpacking.

The High Speed Analog Input Module AI 2xUI 2-/4-wire HS offers oversampling as enhanced functionality.



Modul	Description	Technical data	Industry Mall	TIA Selection Tool
AI 4xI 2-/4-wire ST	4x analog inputs, Standard module, current measurement, 2-and 4-wire transducer	Technical data	6ES7134-6GD01-0BA1	configure and order
AI 4xUI 2-wire ST	4x analog inputs, Standard module, voltage/current measurement, 2-and 4-wire transducer	Technical data	6ES7134-6HD01-0BA1 pack of 10: 6ES7134-6HD01-2BA1	configure and order
AI 4xI 2-wire HART HF	4x analog inputs, High Feature module, channel wise diagnostics, current measurement, 2-wire transducer, 4...20mA HART	Technical data	6ES7134-6TD00-0CA1	configure and order
AI 4xRTD/TC 2-/3-/4-wire HF	4x analog inputs, High Feature module, channel wise diagnostics, voltage/resistance measurement, 2-3-4-wire resistance thermometer, thermocouple	Technical data	6ES7134-6JD00-0CA1 pack of 10: 6ES7134-6JD00-2CA1	configure and order
AI 8xI 2-/4-wire BA	8x analog inputs, Basic module, current measurement, 2-and 4-wire transducer	Technical data	6ES7134-6GF00-0AA1	configure and order
AI 8xRTD/TC 2-wire HF	8x analog inputs, High Feature module, channel wise diagnostics, voltage/resistance measurement, 2-wire resistance thermometer, thermocouple	Technical data	6ES7134-6JF00-0CA1 pack of 10: 6ES7134-6JF00-2CA1	configure and order

AI 8xRTD/TC 2-wire HF	8x analog inputs, High Feature module, channel wise diagnostics, voltage/resistance measurement, 2-wire resistance thermometer, thermocouple	Technical data	6ES7134-6JF00-OCA1 pack of 10: 6ES7134-6JF00-2CA1	configure and order
AI 2xU ST	2 analog inputs, Standard module, voltage measurement	Technical data	6ES7134-6FB00-OBA1	configure and order
AI 2xI 2-/4-wire ST	2 analog inputs, Standard module, current measurement, 2-and 4-wire transducer	Technical data	6ES7134-6GB00-OBA1	configure and order
AI 2xUI 2-/4-wire HF	2x analog inputs, High Feature module channel wise diagnostics, isochronous AI, voltage/current measurement, 2-and 4-wire transducer	Technical data	6ES7134-6HB00-OCA1	configure and order
AI 2xUI 2-/4-wire HS	2x analog inputs, High Speed module, fast isochronous AI, oversampling, voltage/current measurement, 2-and 4-wire transducer	Technical data	6ES7134-6HB00-ODA1	configure and order
AI 2xSG 4-/6-wire HS	2x analog inputs, High Speed module, fast isochronous AI, oversampling, Differential Sigma-Delta for strain gauge (full bridges) for force and torque sensors	Technical data	7MH4134-6LB00-ODA0	configure and order

## Analog output modules (AQ)

The distributed I/O system ET 200SP offers analog output modules for actuators with current or voltage connection

Modules with Standard functionality (ST) are available with 2 or 4 outputs, modules with enhanced functionality (HF High Feature / HS High Speed) always offer 2 outputs.

The High Speed Module AQ 2xUI HS supports fast isochronous outputs and oversampling.



Modules	Description	Technical data	Industry Mall	TIA Selection Tool
AQ 2xU ST	2 x analog outputs, Standard Module voltage output two wire connection	Technical data	6ES7135-6FB00-OBA1	configure and order
AQ 2xI ST	2 x analog outputs, Standard Module current output two wire connection	Technical data	6ES7135-6GB00-OBA1	configure and order
AQ 2xUI HF	2 x analog outputs, High Feature Module current two wire connection/ voltage two/four wire connection output channel diagnostics, isochronous operation	Technical data	6ES7135-6HB00-OCA1	configure and order

AQ 2xUI HS	2 x analog outputs, High Speed Module current two wire connection/ voltage two/four wire connection output channel diagnostics, fast isochronous AQ, oversampling	Technical data	6ES7135-6HB00-0DA1	configure and order
AQ 4xUI ST	4 x analog outputs, Standard Module current two wire connection/ voltage two/four wire connection output	Technical data	6ES7135-6HD00-0BA1	configure and order

## AI Energy Meter - Energy Measurement Module

With the Energy Meter module energy and power consumption can be specified.

With the High Feature versions, it is also possible to perform grid analyses (harmonic analysis, sum current, harmonic distortion, amplitude symmetry, ...). It is possible to switch dynamically between the operating modes "network analysis" and the energy metering during runtime without data loss.

The Energy Meter permits energy management with more than 200(ST) or 500 (HF) different measured energy values. Recording of electrical parameters in 1 and 3-phase networks up to 400 resp. 480 V AC with an accuracy of  $\pm 0.5\%$ .

The High Feature (HF) variants are available in two versions:

- CT (Current transformer): For connecting current transformers
- RC (Rogowski Coil): For connection of current-voltage transformers and Rogowski coils



Modules	Description	Technical data	Article number	TIA Selection Tool
AI Energy Meter 400VAC ST (230/400V)	for measuring within networks of up to 400 V	Technical data	6ES7134-6PA01-0BDO	configure and order
AI Energy Meter 480VAC ST (277/480V)	or measuring within networks of up to 480 V	Technical data	6ES7134-6PA20-0BDO	configure and order
AI Energy Meter 480VAC CT HF (277/480V)	for measuring within networks of up to 480 V, with grid analysis for current transformers	Technical data	6ES7134-6PA00-0CU0	configure and order
AI Energy Meter 480VAC RC HF (277/480V)	for measuring within networks of up to 480 V, with grid analysis for voltage-current-transformers and Rogowski coils	Technical data	6ES7134-6PA20-0CU0	configure and order

## More flexibility and performance due to additional communication options

Whether you are looking for a PROFIBUS Master/Slave, a master for the lower level fieldbus systems or a module that allows direct point-to-point communication, the ET 200SP communication modules enhance flexibility and performance of automation solutions within a decentralized architecture.



## Optimal performance with decentralized technology tasks

Technology modules provide hardware-near signal pre-processing for fast counting, measuring and position detection for different encoders as well as for the precise output of pulses.

Technological functions, such as Motion Control or High Speed Counter, are already integrated in the CPUs of the SIMATIC S7-1500 and can be configured via STEP 7.

Modules are available for:

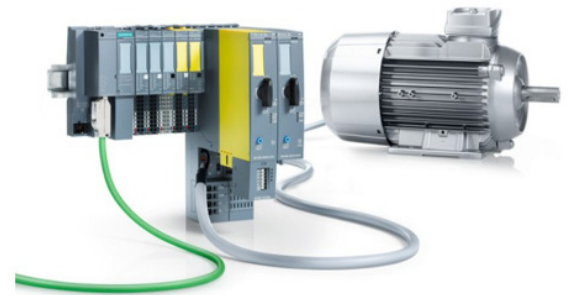
- Counting and Measuring
- Positioning
- Weighing and Dosing
- Cam and probe applications
- Charging control

### Motorstarter SIMATIC ET 200SP

With a width of just 30mm, you get a compact and powerful motor starter - with four adjustment ranges up to 5.5 kW.

It is part of the distributed I / O system SIMATIC ET 200SP and is available as a standard and safety variant. When starting 1- and 3-phase motors, the starter reliably protects against overload and short circuit.

You also benefit from fast configuration in the TIA Portal.



### Valve island AirLINE SP (Type 8647) from Bürkert Fluid Control Systems

For use in ET 200SP, the valve island AirLINE SP (type 8647) is available for a wide variety of pneumatic functions.

The valve island is a product of our product partner\* Bürkert Fluid Control Systems and can only be obtained from Bürkert Fluid Control Systems. It can be used together with system and IO components of the ET 200SP distributed I/O system.



#### Notice on product partners

\* Product partners are external companies outside Siemens AG and its associated companies.

Information and descriptions of products made by product partners are non-binding, which means the responsibility rests with the product partners. These products are manufactured independently with the responsibility resting with the particular product partner; they are sold and supplied by the product partner under its general terms and conditions.

Unless mandated by law, Siemens is not liable or extends any warranties for these products or for the connection with the products of the product partners.



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### 1-phase SITOP power supplies for SIMATIC ET 200SP



The single-phase power supply units enable the optimum load power supply for the distributed I / O SIMATIC ET 200SP. Their extremely flat design makes them suitable for installation in 80 mm deep control boxes. Thanks to an integrated current monitor, an operating LED display and a signaling contact for "output voltage o.k.", they support energy management and diagnostics during system monitoring. In addition, commissioning and maintenance are simplified because individual load circuits can be decoupled, 24 volts can be switched off and on, and it is possible to compensate for voltage drops for long cable lengths.





						
Technical data	72-mm design				72-mm design	
<b>Output voltage/current</b>	<b>5 V/6.3 A</b>	<b>12 V/4.5 A</b>	<b>15 V/4 A</b>	<b>24 V/2.5 A</b>	<b>24 V/4 A</b>	
NEC Class 2	no	no	yes	yes	no	
Article No.	6EP3311-6SB00-0AY0	6EP3322-6SB00-0AY0	6EP3322-6SB10-0AY0	6EP3332-6SB00-0AY0	6EP3333-6SB00-0AY0	
Rated input voltage – Range	100–240 V AC 85...264 V AC/110...300 V DC				100–240 V AC 85...264 V AC/110...300 V DC	
Mains buffering	> 40 ms (at 187 V)				> 40 ms (at 187 V)	
Rated line frequency	50/60 Hz				50/60 Hz	
Rated input current – Inrush current <sup>1)</sup>	0.71–0.37 A < 50 A	1.13–0.61 A < 50 A	1.24–0.68 A < 55 A	1.22–0.66 A < 52 A	1.95–0.97 A < 31 A	
– Recommended miniature circuit breaker		from 10 A characteristic B or from 6 A characteristic C			from 10 A characteristic B or from 6 A characteristic C	
Rated output voltage – Tolerance – Setting range	5 V DC ± 3 % 4.6...5.4 V DC	12 V DC 10.5...16.1 V DC	15 V DC 10.5...16.1 V DC	24 V DC 22.2...26.4 V DC	24 V DC ± 3 % 22.2...26.4 V DC	
Rated output current – Overload behavior on startup – Derating	6.3 A 9.45 A (for 200 ms) from +55 °C (2%/K)	4.5 A 6.75 A (for 200 ms) from +55 °C (2%/K)	4.0 A 6.0 A (for 200 ms) from +55 °C (2%/K)	2.5 A 3.75 A (for 200 ms) from +55 °C (2%/K)	4.0 A 6.0 A (for 200 ms) from +55 °C (2%/K)	
Efficiency at rated values, approx.	80 %	87 %	88 %	90 %	89 %	
Signaling contact "DC o. k."	No	No	No	No	No	
Parallel switching	Yes	Yes	Yes	Yes	Yes	
No-load loss	< 0.3 W				< 0.3 W	
Electronic short-circuit protection		Yes, constant current			Yes, constant current	
Radio interference suppression (EN 55022)	Class B				Class B	
Supply harmonics limitation (EN 61000-3-2)	Not applicable				Yes	
Degree of protection (EN 60529)	IP20				IP20	
Ambient temperature	–25... +70 °C				–25... +70 °C	
Dimensions (W x H x D) in mm	54 x 90 x 53				72 x 90 x 53	
Weight approx.	0.2 kg				0.29 kg	
Certification	CE, CB Scheme, cULus, cURus, ATEX, IECEx, CCC, Class 1 Div 2, FM, SEMI F47, DNV GL, ABS, EAC	CE, CB Scheme, cULus, cURus, NEC Class 2, ATEX, IECEx, CCC, Class 1 Div 2, FM, SEMI F47, DNV GL, ABS, EAC	CE, CB Scheme, cULus, cURus, NEC Class 2, ATEX, IECEx, CCC, Class 1 Div 2, FM, SEMI F47, DNV GL, ABS, EAC	CE, CB Scheme, cULus, cURus, NEC Class 2, ATEX, IECEx, CCC, Class 1 Div 2, FM, SEMI F47, DNV GL, ABS, SEMI 47, BV, LRS, EAC	CE, CB Scheme, cULus, cURus, ATEX, IECEx, CCC, Class 1 Div 2, FM, SEMI F47, DNV GL, ABS, SEMI F47, BV, LRS, EAC	

						
Technical data	18-mm design		36-mm design			
<b>Output voltage/current</b>	<b>12 V/0.9 A</b>	<b>24 V/0.6 A</b>	<b>5 V/3 A</b>	<b>12 V/1.9 A</b>	<b>15 V/1.9 A</b>	<b>24 V/1.3 A</b>
NEC Class 2	Yes	Yes	Yes	Yes	Yes	Yes
Article No.	6EP3320-6SB00-0AY0	6EP3330-6SB00-0AY0	6EP3310-6SB00-0AY0	6EP3321-6SB00-0AY0	6EP3321-6SB10-0AY0	6EP3331-6SB00-0AY0
Rated input voltage – Range	100–240 V AC 85...264 V AC/110...300 V DC		100–240 V AC 85...264 V AC/110...300 V DC			
Mains buffering	> 40 ms (at 187 V)	> 40 ms (at 187 V)	> 40 ms (at 187 V)			
Rated line frequency	50/60 Hz	50/60 Hz	50/60 Hz			
Rated input current – Inrush current <sup>1)</sup>	0.3–0.2 A < 20 A	0.3–0.2 A < 20 A	0.36–0.22 A < 26 A	0.53–0.30 A < 25 A	0.63–0.33 A < 25 A	0.70–0.35 A < 25 A
– Recommended miniature circuit breaker		from 6 A characteristic B or from 2 A characteristic C		from 6 A characteristic B or from 2 A characteristic C		
Rated output voltage – Tolerance – Setting range	12 V DC ± 3 % None	24 V DC	5 V DC ± 3 % 4.6...5.4 V DC	12 V DC 10.5...16.1 V DC	15 V DC 10.5...16.1 V DC	24 V DC 22.2...26.4 V DC
Rated output current – Overload behavior on startup – Derating	0.9 A 1.35 A (for 200 ms)	0.6 A 0.9 A (for 200 ms)	3.0 A 4.5 A (for 200 ms) from +55 °C (2%/K)	1.9 A 2.85 A (for 200 ms) from +55 °C (2%/K)	1.9 A 2.85 A (for 200 ms) from +55 °C (2%/K)	1.3 A 1.95 A (for 200 ms) from +55 °C (2%/K)
Efficiency at rated values, approx.	78 %	81 %	76 %	81 %	83 %	86 %
Signaling contact "DC o. k."	No	No	No	No	No	No
Parallel switching	No	No	Yes	Yes	Yes	Yes
No-load loss	< 0.3 W		< 0.3 W			
Electronic short-circuit protection		Yes, constant current		Yes, constant current		
Radio interference suppression (EN 55022)	Class B		Class B			
Supply harmonics limitation (EN 61000-3-2)	Not applicable		Not applicable			
Degree of protection (EN 60529)	IP20		IP20			
Ambient temperature	–25... +70 °C		–25... +70 °C			
Dimensions (W x H x D) in mm	18 x 90 x 53		36 x 90 x 53			
Weight approx.	0.07 kg	0.07 kg	0.12 kg			
Certification	CE, CB Scheme, cULus, cURus, NEC Class 2, ATEX, IECEx, CCC, Class 1 Div 2, FM, SEMI F47, DNV GL, ABS, EAC		CE, CB Scheme, cULus, cURus, NEC Class 2, ATEX, IECEx, CCC, Class 1 Div 2, FM, SEMI F47, DNV GL, ABS, EAC	CE, CB Scheme, cULus, cURus, NEC Class 2, ATEX, IECEx, CCC, Class 1 Div 2, FM, SEMI F47, DNV GL, ABS, EAC		CE, CB Scheme, cULus, cURus, NEC Class 2, ATEX, IECEx, CCC, Class 1 Div 2, FM, SEMI F47, DNV GL, ABS, BV, LRS, EAC

**SIEMENS**

ET200 SP Overview



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