

Overview



SITOP PSU4200 family

Fresh power for basic applications

The SITOP PSU4200 product family offers extensive functions at an attractive price and is most suitable for basic requirements in industrial environments.

The compact design, easy installation and high efficiency of the PSU4200 allow cost and energy savings to be made.

To further increase 24 V availability, the PSU4200 can be combined with **selectivity, redundancy and DC UPS** modules.

Product highlights of the product line

- Power monitor for quick and easy status detection
 - Green LED signal -DC ok, yellow LED signal -DC limit operation, no LED -DC not ok
- Compact design for direct side-by-side mounting without lateral clearance
- Push-in connection system
 - Easy, time-saving installation without need for tools
 - Separate ground terminal
- Broad product range
 - 1-phase, 24 V DC/3 A, 5 A, 10 A and 20 A (72-480 W)
 - 3-phase, 24 V DC/10 A and 20 A (240-480 W)
- EMC standards according to the standard for plant engineering
- Active PFC (1-phase, 20 A device)
- Full load current up to 60 °C
 - Wide temperature range -25 °C to 70 °C
- High degree of efficiency of up to 93%
- QR code for quick and easy access to manuals and technical specifications
- DIN rail mounting and wall mounting (1-phase)
- 2G vibration resistance
- Configuration with add-on modules (redundancy, selectivity, DC UPS for maximum reliability)
- Sustainable according to Siemens EcoTech

Basic power supplies

SITOP PSU4200

1-phase, 24 V DC

Overview

Stabilized 1-phase power supply with wide-range input in four power levels.

Product highlights

- 1-phase, 24 V DC/3 A, 5 A, 10 A and 20 A
- Active PFC (1-phase, 20 A device)
- Power monitor for quick and easy status detection
- Push-in connection system
 - Easy, time-saving installation without need for tools
 - Separate ground terminal
- Enclosure
 - Metal 20 A / plastic <20 A
- Sustainable according to Siemens EcoTech (exception 24 V/20 A 1-phase)
- Can be expanded with SITOP add-on and DC UPS modules

Selection and ordering data

SITOP PSU4200 1-phase, 24 V DC/3 A Stabilized power supply Input: 120/240 V AC Output: 24 V DC/3 A	6EP3332-3SB00-0AX0
SITOP PSU4200 1-phase, 24 V DC/5 A Stabilized power supply Input: 120/240 V AC Output: 24 V DC/5 A	6EP3333-3SB00-0AX0
SITOP PSU4200 1-phase, 24 V DC/10 A Stabilized power supply Input: 120/240 V AC Output: 24 V DC/10 A	6EP3334-3SB00-0AX0
SITOP PSU4200 1-phase, 24 V DC/20 A Stabilized power supply Input: 120/240 V AC Output: 24 V DC/20 A	6EP3336-3SB00-0AX0

Accessories

SITOP redundancy modules	For more information, visit: www.siemens.com/sitop-redundancy/mall
SITOP selectivity modules	For more information, visit: www.siemens.com/sitop-selectivity/mall
SITOP BUF1200 buffer module	For more information, visit: www.siemens.com/sitop-buffering/mall
DC UPS modules	
SITOP DC UPS	For more information, visit: www.siemens.com/sitop-ups/mall

Technical specifications

Article number	6EP3332-3SB00-0AX0	6EP3333-3SB00-0AX0	6EP3334-3SB00-0AX0	6EP3336-3SB00-0AX0
product brand name	SITOP PSU4200	SITOP PSU4200	SITOP PSU4200	SITOP PSU4200
type of current supply	24 V/3 A	24 V/5 A	24 V/10 A	24 V/20 A
input				
type of the power supply network	1-phase AC	1-phase AC	1-phase AC	1-phase AC
supply voltage at AC				
• minimum rated value				120 V
• maximum rated value				240 V
• initial value				85 V
• full-scale value				264 V
supply voltage at AC	Automatic range selection	Automatic range selection	Automatic range selection	
supply voltage 1 at AC	100 ... 120 V	100 ... 120 V	100 ... 120 V	
supply voltage 2 at AC	200 ... 240 V	200 ... 240 V	200 ... 240 V	
input voltage 1 at AC	85 ... 132 V	85 ... 132 V	85 ... 132 V	
input voltage 2 at AC	187 ... 264 V	187 ... 264 V	187 ... 264 V	
wide range input	No	No	No	Yes
buffering time for rated value of the output current in the event of power failure minimum	15 ms	15 ms	15 ms	15 ms
operating condition of the mains buffering	at $V_{in} = 120/240$ V			
line frequency	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
line frequency	47 ... 63 Hz			
input current				
• at rated input voltage 100 V	1.5 A	2.5 A	5 A	5.4 A
• at rated input voltage 120 V	1.3 A	2.1 A	4.3 A	4.5 A
• at rated input voltage 200 V	0.9 A	1.4 A	2.6 A	2.6 A
• at rated input voltage 230 V	0.73 A	1.25 A	2.5 A	2.4 A
• at rated input voltage 240 V	0.7 A	1.2 A	2.4 A	2.3 A
current limitation of inrush current at 25 °C maximum	45 A	45 A	60 A	20 A
duration of inrush current limiting at 25 °C				
• typical	20 ms	20 ms	20 ms	40 ms
I ² t value maximum	1.6 A ² ·s	1.6 A ² ·s	3.2 A ² ·s	3 A ² ·s
fuse protection type	3.15 A	3.15 A	6.3 A	6.3 A
fuse protection type in the feeder	Recommended miniature circuit breaker: from 6 A characteristic C to from 16 A characteristic C	Recommended miniature circuit breaker: from 6 A characteristic C to from 16 A characteristic C	Recommended miniature circuit breaker: from 6 A characteristic C to from 16 A characteristic C	Recommended miniature circuit breaker: from 10 A characteristic C to from 16 A characteristic C
output				
voltage curve at output	Controlled, isolated DC voltage			
output voltage at DC rated value	24 V	24 V	24 V	24 V
output voltage				
• at output 1 at DC rated value	24 V	24 V	24 V	24 V
	24 V	24 V	24 V	24 V
output voltage adjustable	Yes; via potentiometer	Yes; via potentiometer	Yes; via potentiometer	Yes; via potentiometer
adjustable output voltage	24 ... 28 V			
relative control precision of the output voltage				
• on slow fluctuation of input voltage	0.2 %	0.2 %	0.2 %	0.1 %
• on slow fluctuation of ohm loading	0.3 %	0.3 %	0.3 %	1 %
residual ripple				
• maximum	150 mV	150 mV	150 mV	150 mV
• typical	40 mV	35 mV	25 mV	35 mV
voltage peak				

Basic power supplies

SITOP PSU4200

1-phase, 24 V DC

Technical specifications (continued)

Article number	6EP3332-3SB00-0AX0	6EP3333-3SB00-0AX0	6EP3334-3SB00-0AX0	6EP3336-3SB00-0AX0
product brand name	SITOP PSU4200	SITOP PSU4200	SITOP PSU4200	SITOP PSU4200
type of current supply	24 V/3 A	24 V/5 A	24 V/10 A	24 V/20 A
• maximum	240 mV	240 mV	240 mV	240 mV
• typical	40 mV	30 mV	20 mV	67 mV
display version for normal operation	Green LED for 24 V OK			
type of signal at output		Signal contact (signal load capacity: 5 mA) for DC OK	Signal contact (signal load capacity: 5 mA) for DC OK	Signal contact (signal load capacity: 10 mA) for DC OK
behavior of the output voltage when switching on	No overshoot of Vout (soft start)			
response delay maximum	1.5 s	1.5 s	1.5 s	1.5 s
voltage increase time of the output voltage				
• typical	190 ms	210 ms	130 ms	33 ms
• maximum	500 ms	500 ms	500 ms	500 ms
output current				
• rated value	3 A	5 A	10 A	20 A
• rated range	0 ... 3 A; +60 to +70 °C: without derating 2.6 ... 4.9 A	0 ... 5 A; +60 ... +70 °C: Derating 4%/K 5 A	0 ... 10 A; +60 ... +70 °C: Derating 4%/K 10 A	0 ... 20 A; +60 ... +70 °C: Derating 3%/K 20 A
supplied active power typical	72 W	120 W	240 W	480 W
bridging of equipment	Yes	Yes	Yes	Yes
number of parallel-switched equipment resources	2	2	2	2
efficiency				
efficiency in percent	85 %	87 %	90 %	93 %
power loss [W]				
• at rated output voltage for rated value of the output current typical	13 W	18 W	27 W	37 W
• during no-load operation maximum	2.2 W	2.2 W	3 W	3 W
closed-loop control				
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.2 %	0.2 %	0.2 %	0.2 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	2 %	1 %	2 %	2 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2.5 %	1 %	3 %	3 %
setting time				
• load step 10 to 90% typical	1 ms	1 ms	1 ms	1 ms
• load step 90 to 10% typical	1 ms	1 ms	1 ms	1 ms
protection and monitoring				
design of the overvoltage protection	< 32 V	< 32 V	< 32 V	< 32 V
property of the output short-circuit proof	Yes	Yes	Yes	Yes
design of short-circuit protection	Constant current characteristic	Constant current characteristic	Constant current characteristic	Shutdown and periodic restart attempts
• typical	3.6 A	6 A	12.5 A	23.1 A
enduring short circuit current RMS value				
• typical	3.5 A	6 A	12.5 A	6 A
safety				
galvanic isolation between input and output	Yes	Yes	Yes	Yes
galvanic isolation	ES1 output voltage Vout according to EN 62368-1 (Safety extra low output voltage Vout according to EN 60950-1)	ES1 output voltage Vout according to EN 62368-1 (Safety extra low output voltage Vout according to EN 60950-1)	ES1 output voltage Vout according to EN 62368-1 (Safety extra low output voltage Vout according to EN 60950-1)	ES1 output voltage Vout according to EN 62368-1 (Safety extra low output voltage Vout according to EN 60950-1)

Technical specifications (continued)

Article number	6EP3332-3SB00-0AX0	6EP3333-3SB00-0AX0	6EP3334-3SB00-0AX0	6EP3336-3SB00-0AX0
product brand name	SITOP PSU4200	SITOP PSU4200	SITOP PSU4200	SITOP PSU4200
type of current supply	24 V/3 A	24 V/5 A	24 V/10 A	24 V/20 A
operating resource protection class	Class I	Class I	Class I	Class I
leakage current				
• maximum	1.4 mA	1.4 mA	1.3 mA	0.7 mA
• typical	0.7 mA	0.7 mA	0.7 mA	0.5 mA
protection class IP	IP20	IP20	IP20	IP20
standard				
• for emitted interference	EN 55032 Class A			
• for mains harmonics limitation	EN 61000-3-2	EN 61000-3-2	EN 61000-3-2	EN 61000-3-2
• for interference immunity	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2
standards, specifications, approvals				
certificate of suitability				
• CE marking	Yes	Yes	Yes	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (UL 62368-1, CSA C22.2 No. 62368-1-19)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (UL 62368-1, CSA C22.2 No. 62368-1-19)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (UL 62368-1, CSA C22.2 No. 62368-1-19)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (UL 62368-1, CSA C22.2 No. 62368-1-19)
• CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (UL 62368-1, CSA C22.2 No. 62368-1-19)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (UL 62368-1, CSA C22.2 No. 62368-1-19)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (UL 62368-1, CSA C22.2 No. 62368-1-19)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (UL 62368-1, CSA C22.2 No. 62368-1-19)
• UKCA marking	Yes	Yes	Yes	Yes
• EAC approval	Yes	Yes	Yes	Yes
• Regulatory Compliance Mark (RCM)	Yes	Yes	Yes	Yes
• NEC Class 2	No	No	No	No
type of certification				
• BIS	Yes; R-41183539	Yes; R-41183539	No	No
• CB-certificate	Yes	Yes	Yes	Yes
MTBF at 40 °C	1 700 000 h	1 580 000 h	1 220 000 h	1 065 000 h
standards, specifications, approvals hazardous environments				
certificate of suitability				
• IECEx	No	No	No	No
• ATEX	No	No	No	No
• ULhazloc approval	No	No	No	No
• cCSAus, Class 1, Division 2	No	No	No	No
• FM registration	No	No	No	No
standards, specifications, approvals marine classification				
shipbuilding approval	No	No	No	No
Marine classification association				
• American Bureau of Shipping Europe Ltd. (ABS)	No	No	No	No
• French marine classification society (BV)	No	No	No	No
• Det Norske Veritas (DNV)	No	No	No	No
• Lloyds Register of Shipping (LRS)	No	No	No	No
standards, specifications, approvals Environmental Product Declaration				
Environmental Product Declaration	Yes	Yes	Yes	Yes
Global Warming Potential [CO ₂ eq]				
• total	330.1 kg	476.1 kg	785 kg	1 078.9 kg
• during manufacturing	13.1 kg	14 kg	20.7 kg	47.4 kg
• during operation	316.6 kg	461.6 kg	763 kg	1 029.9 kg

Basic power supplies

SITOP PSU4200

1-phase, 24 V DC

Technical specifications (continued)

Article number	6EP3332-3SB00-0AX0	6EP3333-3SB00-0AX0	6EP3334-3SB00-0AX0	6EP3336-3SB00-0AX0
product brand name	SITOP PSU4200	SITOP PSU4200	SITOP PSU4200	SITOP PSU4200
type of current supply	24 V/3 A	24 V/5 A	24 V/10 A	24 V/20 A
• after end of life	0.36 kg	0.38 kg	0.57 kg	0.72 kg
Siemens Eco Profile (SEP)	Siemens EcoTech	Siemens EcoTech	Siemens EcoTech	
ambient conditions				
ambient temperature				
• during operation	-25 ... +70 °C; with natural convection			
• during transport	-40 ... +85 °C			
• during storage	-40 ... +85 °C			
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation
connection method				
type of electrical connection	push-in terminals	push-in terminals	push-in terminals	push-in terminals
• at input	L, N, PE: push-in for 0.5 ... 4 mm ²	L, N, PE: push-in for 0.5 ... 4 mm ²	L, N, PE: push-in for 0.5 ... 4 mm ²	L, N, PE: push-in for 0.5 ... 4 mm ²
• at output	+, -: push-in for 0.5 ... 2.5 mm ²	+, -: push-in for 0.5 ... 2.5 mm ²	+, -: push-in for 0.5 ... 2.5 mm ²	+, -: push-in for 0.5 ... 6 mm ²
• for signaling contact		13, 14: push-in for 0.2 ... 1.5 mm ²	13, 14: push-in for 0.2 ... 1.5 mm ²	13, 14: push-in for 0.2 ... 1.5 mm ²
mechanical data				
width × height × depth of the enclosure	50 mm × 125 mm	50 mm × 125 mm	70 mm × 125 mm	70 mm × 125 mm
installation width × mounting height	50 mm	50 mm	70 mm	70 mm
required spacing				
• top	45 mm	45 mm	45 mm	45 mm
• bottom	45 mm	45 mm	45 mm	45 mm
• left	0 mm	0 mm	0 mm	0 mm
• right	0 mm	0 mm	0 mm	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15			
• standard rail mounting	Yes	Yes	Yes	Yes
• S7 rail mounting	No	No	No	No
• wall mounting	Yes	Yes	Yes	No
housing can be lined up	Yes	Yes	Yes	Yes
net weight	0.44 kg	0.44 kg	0.65 kg	0.93 kg
further information internet links				
internet link				
• to website: Industry Mall	https://mall.industry.siemens.com	https://mall.industry.siemens.com	https://mall.industry.siemens.com	https://mall.industry.siemens.com
• to web page: selection aid TIA Selection Tool	https://siemens.com/tst	https://siemens.com/tst	https://siemens.com/tst	https://siemens.com/tst
• to website: Industrial communication	http://www.siemens.com/simatic-net	http://www.siemens.com/simatic-net	http://www.siemens.com/simatic-net	http://www.siemens.com/simatic-net
• to website: CAx-Download-Manager	http://www.siemens.com/cax	http://www.siemens.com/cax	http://www.siemens.com/cax	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com
additional information				
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

Technical specifications (continued)

Article number	6EP3332-3SB00-0AX0	6EP3333-3SB00-0AX0	6EP3334-3SB00-0AX0	6EP3336-3SB00-0AX0
product brand name	SITOP PSU4200	SITOP PSU4200	SITOP PSU4200	SITOP PSU4200
type of current supply	24 V/3 A	24 V/5 A	24 V/10 A	24 V/20 A
security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)</p>	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. 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To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)</p>	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)</p>	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)</p>

Basic power supplies

SITOP PSU4200

3-phase, 24 V DC

Overview

Stabilized 3-phase power supplies with 400 to 500 V AC input in two power levels.

Product highlights

- 3-phase, 24 V DC/10 A and 20 A
- Power monitor for quick and easy status detection
- Push-in connection system
 - Easy, time-saving installation without need for tools
 - Separate ground terminal
- Enclosure - metal 20 A / plastic <20 A
- Sustainable according to Siemens EcoTech
- Can be expanded with SITOP add-on and DC UPS modules

Selection and ordering data

SITOP PSU4200 3-phase, 24 V DC/10 A Stabilized power supply Input: 400/500 V AC Output: 24 V DC/10 A	6EP3434-3SB00-0AX0
SITOP PSU 4200 3-phase, 24 V DC/20 A Stabilized power supply Input: 400/500 V AC Output: 24 V DC/20 A	6EP3436-3SB00-0AX0

Accessories

SITOP redundancy modules	For more information, visit: www.siemens.com/sitop-redundancy/mall
SITOP selectivity modules	For more information, visit: www.siemens.com/sitop-selectivity/mall
SITOP BUF1200 buffer module	For more information, visit: www.siemens.com/sitop-buffering/mall
DC UPS modules	
SITOP DC UPS	For more information, visit: www.siemens.com/sitop-ups/mall

Technical specifications

Article number	6EP3434-3SB00-0AX0	6EP3436-3SB00-0AX0
product brand name	SITOP PSU4200	SITOP PSU4200
type of current supply	24 V/10 A	24 V/20 A
input		
type of the power supply network	3-phase AC	3-phase AC
supply voltage at AC		
• minimum rated value	400 V	400 V
• maximum rated value	500 V	500 V
• initial value	320 V	320 V
• full-scale value	550 V	550 V
wide range input	Yes	Yes
buffering time for rated value of the output current in the event of power failure minimum	5 ms	5 ms
operating condition of the mains buffering	at $V_{in} = 400/500$ V	at $V_{in} = 400/500$ V
line frequency	50 Hz/60 Hz	50 Hz/60 Hz
line frequency	47 ... 63 Hz	47 ... 63 Hz
input current		
• at rated input voltage 400 V	0.7 A	1.4 A
• at rated input voltage 500 V	0.6 A	1.2 A
current limitation of inrush current at 25 °C maximum	50 A	36 A
duration of inrush current limiting at 25 °C		
• typical	20 ms	20 ms
I _{2t} value maximum	0.9 A ² ·s	0.9 A ² ·s
fuse protection type in the feeder	three-poled coupled circuit breaker from 3 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 3 A) or 3RV2711-1ED10 (UL 489)	three-poled coupled circuit breaker from 6 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1GA10 (setting 6 A) or 3RV2711-1GD10 (UL 489)
output		
voltage curve at output	Controlled, isolated DC voltage	Controlled, isolated DC voltage
output voltage at DC rated value	24 V	24 V
output voltage		
• at output 1 at DC rated value	24 V	24 V
	24 V	24 V
output voltage adjustable	Yes; via potentiometer	Yes; via potentiometer
adjustable output voltage	24 ... 28 V	24 ... 28 V
relative control precision of the output voltage		
• on slow fluctuation of input voltage	0.2 %	0.2 %
• on slow fluctuation of ohm loading	0.3 %	0.3 %
residual ripple		
• maximum	150 mV	150 mV
• typical	48 mV	25 mV
voltage peak		
• maximum	240 mV	240 mV
• typical	30 mV	10 mV
display version for normal operation	Green LED for 24 V OK	Green LED for 24 V OK
type of signal at output	Signal contact (signal load capacity: 5 mA) for DC OK	Signal contact (signal load capacity: 5 mA) for DC OK
behavior of the output voltage when switching on	No overshoot of V_{out} (soft start)	Overshoot of V_{out} approx. 1 %
response delay maximum	1.5 s	1.5 s
voltage increase time of the output voltage		
• typical	210 ms	230 ms
• maximum	500 ms	500 ms
output current		
• rated value	10 A	20 A
• rated range	0 ... 10 A; +60 ... +70 °C: Derating 3%/K	0 ... 20 A; +55 ... +70 °C: Derating 2%/K

Basic power supplies

SITOP PSU4200

3-phase, 24 V DC

Technical specifications (continued)

Article number	6EP3434-3SB00-0AX0	6EP3436-3SB00-0AX0
product brand name	SITOP PSU4200	SITOP PSU4200
type of current supply	24 V/10 A	24 V/20 A
supplied active power typical	10 A	20 A
bridging of equipment	240 W	480 W
number of parallel-switched equipment resources	Yes	Yes
	2	2
efficiency		
efficiency in percent	90 %	91 %
power loss [W]		
• at rated output voltage for rated value of the output current typical	27 W	48 W
• during no-load operation maximum	3 W	3.5 W
closed-loop control		
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.2 %	0.2 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	0.5 %	0.5 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	1.5 %	1 %
setting time		
• load step 10 to 90% typical	1 ms	1 ms
• load step 90 to 10% typical	1 ms	1 ms
protection and monitoring		
design of the overvoltage protection	< 32 V	< 32 V
property of the output short-circuit proof	Yes	Yes
design of short-circuit protection	Constant current characteristic	Constant current characteristic
• typical	12.2 A	23.4 A
enduring short circuit current RMS value		
• typical	12.5 A	23.5 A
safety		
galvanic isolation between input and output	Yes	Yes
galvanic isolation	ES1 output voltage V_{out} according to EN 62368-1 (Safety extra low output voltage V_{out} according to EN 60950-1)	ES1 output voltage V_{out} according to EN 62368-1 (Safety extra low output voltage V_{out} according to EN 60950-1)
operating resource protection class	Class I	Class I
leakage current		
• maximum	0.8 mA	0.8 mA
• typical	0.4 mA	0.4 mA
protection class IP	IP20	IP20
standard		
• for emitted interference	EN 55032 Class A	EN 55032 Class A
• for mains harmonics limitation	EN 61000-3-2	EN 61000-3-2
• for interference immunity	EN 61000-6-2	EN 61000-6-2
standards, specifications, approvals		
certificate of suitability		
• CE marking	Yes	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (UL 62368-1, CSA C22.2 No. 62368-1-19)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (UL 62368-1, CSA C22.2 No. 62368-1-19)
• CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (UL 62368-1, CSA C22.2 No. 62368-1-19)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (UL 62368-1, CSA C22.2 No. 62368-1-19)
• UKCA marking	Yes	Yes
• EAC approval	Yes	Yes
• Regulatory Compliance Mark (RCM)	Yes	Yes
• NEC Class 2	No	No

Technical specifications (continued)

Article number	6EP3434-3SB00-0AX0	6EP3436-3SB00-0AX0
product brand name	SITOP PSU4200	SITOP PSU4200
type of current supply	24 V/10 A	24 V/20 A
type of certification		
• BIS	Yes; R-41183539	No
• CB-certificate	Yes	Yes
MTBF at 40 °C	1 330 000 h	815 000 h
standards, specifications, approvals hazardous environments		
certificate of suitability		
• IECEx	No	No
• ATEX	No	No
• ULhazloc approval	No	No
• cCSAus, Class 1, Division 2	No	No
• FM registration	No	No
standards, specifications, approvals marine classification		
shipbuilding approval	No	No
Marine classification association		
• American Bureau of Shipping Europe Ltd. (ABS)	No	No
• French marine classification society (BV)	No	No
• Det Norske Veritas (DNV)	No	No
• Lloyds Register of Shipping (LRS)	No	No
standards, specifications, approvals Environmental Product Declaration		
Environmental Product Declaration	Yes	Yes
Global Warming Potential [CO2 eq]		
• total	702 kg	1 054.8 kg
• during manufacturing	20.7 kg	32.8 kg
• during operation	680.6 kg	1 020.9 kg
• after end of life	0.57 kg	0.5 kg
Siemens Eco Profile (SEP)	Siemens EcoTech	Siemens EcoTech
ambient conditions		
ambient temperature		
• during operation	-25 ... +70 °C; with natural convection	-25 ... +70 °C; with natural convection
• during transport	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation
connection method		
type of electrical connection	push-in terminals	push-in terminals
• at input	L1, L2, L3, PE: push-in for 0.5 ... 4 mm ²	L1, L2, L3, PE: push-in for 0.5 ... 4 mm ²
• at output	+, -: push-in for 0.5 ... 2.5 mm ²	+, -: push-in for 0.5 ... 6 mm ²
• for signaling contact	13, 14: push-in for 0.2 ... 1.5 mm ²	13, 14: push-in for 0.2 ... 1.5 mm ²
mechanical data		
width × height × depth of the enclosure	70 mm × 125 mm	95 mm × 150 mm
installation width × mounting height	70 mm	95 mm
required spacing		
• top	45 mm	45 mm
• bottom	45 mm	45 mm
• left	0 mm	0 mm
• right	0 mm	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15
• standard rail mounting	Yes	Yes
• S7 rail mounting	No	No
• wall mounting	Yes	No

Basic power supplies

SITOP PSU4200

3-phase, 24 V DC

Technical specifications (continued)

Article number	6EP3434-3SB00-0AX0	6EP3436-3SB00-0AX0
product brand name	SITOP PSU4200	SITOP PSU4200
type of current supply	24 V/10 A	24 V/20 A
housing can be lined up	Yes	Yes
net weight	0.64 kg	1.66 kg
further information internet links		
internet link		
<ul style="list-style-type: none"> to website: Industry Mall to web page: selection aid TIA Selection Tool to website: Industrial communication to website: CAx-Download-Manager to website: Industry Online Support 	https://mall.industry.siemens.com https://siemens.com/tst http://www.siemens.com/simatic-net http://www.siemens.com/cax https://support.industry.siemens.com	https://mall.industry.siemens.com https://siemens.com/tst http://www.siemens.com/simatic-net http://www.siemens.com/cax https://support.industry.siemens.com
additional information		
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information		
security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)</p>	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)</p>