Data sheet

6EP7133-6AB00-0BN0



SIMATIC ET 200SP PS 24V/5A Stabilized power supply Input: 120/230 V AC Output: 24 V DC/5 A



type of the power supply network supply voltage at AC supply voltage at AC supply voltage at AC supply voltage at AC supply voltage 2 at AC supply voltage 3 at AC supply voltage 4 at AC supply voltage 5 at AC supply voltage 4 at AC supply voltage 5 at	input	
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overvoltage overload capability buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering at Vin = 93/187 V line frequency ine frequency ine frequency at rated input voltage 120 V at rated input voltage 230 V current limitation of inrush current at 25 °C maximum 45 A 12t value maximum fuse protection type tose protection type tose protection type voltage curve at output voltage curve at output voltage curve at output voltage curve at output voltage at output voltage at output voltage at output voltage at output voltage adjustable versil tolerance of the voltage on slow fluctuation of input voltage on slow fluctuation of input voltage enakimum 150 mV typical voltage version for normal operation typical fine frequency 20 ms 20 voltage at vine query 45 A 45 A 45 A 45 A 45 A 21.22 A 22.45 22.45 22.45 23 ms 24 V 24 V 24 V 24 V 25 via potentiometer 26 maximum 40 maximum	input voltage 2 at AC	170 264 V
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voltage peak	• typical	50 mV
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display version for normal operation Green LED for 24 V OK type of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	• typical	150 mV
type of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	· ·	Green LED for 24 V OK
		Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
		Overshoot of Vout < 3 %

response delay maximum	0.3 s
voltage increase time of the output voltage	00
• typical	30 ms
output current	
rated value	5 A
rated range	0 6 A; 5 A up to +60°C; +60 +70 °C: Derating 3%/K
supplied active power typical	120 W
short-term overload current	
 on short-circuiting during the start-up typical 	15 A
at short-circuit during operation typical	15 A
duration of overloading capability for excess current	
 on short-circuiting during the start-up 	800 ms
 at short-circuit during operation 	800 ms
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	88 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	17 W
during no-load operation maximum	2.7 W
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %
setting time	
load step 10 to 90% typical	1 ms
• load step 90 to 10% typical	1 ms
protection and monitoring	
design of the overvoltage protection	protection against overvoltage in case of internal fault Vout < 31.8 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
response value current limitation	7 7.5 A
overcurrent overload capability	
in normal operation	overload capability 150 % lout rated up to 5 s/min
enduring short circuit current RMS value	
• typical	7 A
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I
leakage current	
maximum	3.5 mA
• typical	1 mA
protection class IP	IP20
EMC	
standard	
for emitted interference	EN 61000-6-3 Class B
for mains harmonics limitation	EN 61000-3-2
• for interference immunity	EN 61000-6-2
standards, specifications, approvals	
standards, specifications, approvals certificate of suitability	
	Yes
certificate of suitability	Yes Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
certificate of suitability • CE marking	Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2
certificate of suitability • CE marking • UL approval	Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142), cCSAus (CSA C22.2
certificate of suitability CE marking UL approval CSA approval	Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142), cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
certificate of suitability CE marking UL approval CSA approval EAC approval	Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142), cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes

CB-certificate	Yes
MTBF at 40 °C	1 598 441 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• IECEx	Yes; IECEx Ex ec nC IIC T3 Gc
• ATEX	Yes; ATEX (EX) II 3G Ex ec nC IIC T3 Gc
ULhazloc approval	Yes
• cCSAus, Class 1, Division 2	No
• UKEX	Yes
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
 French marine classification society (BV) 	Yes
 Det Norske Veritas (DNV) 	Yes
 Lloyds Register of Shipping (LRS) 	No
standards, specifications, approvals Environmental Product De	claration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	474.9 kg
during manufacturing	9.4 kg
during operation	465 kg
after end of life	0.35 kg
ambient conditions	
ambient temperature	
during operation	-30 +70; with natural convection
during transport	-40 +85
during storage	-40 +85
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
type of electrical connection	push-in terminals
• at input	L, N, PE: 1 push-in terminal each for 0.2 2.5 mm² single-core/finely stranded
• at output	+, -: 2 push-in terminals each for 0.2 2.5 mm ²
for auxiliary contacts	Signaling contact: 2 push-in terminals for 0.2 2.5 mm ²
for signaling contact	2 push-in terminals for 0.2 2.5 mm ²
removable terminal at input	Yes
removable terminal at output	Yes
mechanical data	
width × height × depth of the enclosure	160 × 117 × 74 mm
installation width × mounting height	160 mm × 174 mm
required spacing	
• top	50 mm
• bottom	50 mm
● left	0 mm
• right	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
standard rail mounting	Yes
S7 rail mounting	No
wall mounting	No
housing can be lined up	Yes
net weight	0.5 kg
accessories	
electrical accessories	Redundancy module, buffer module, selectivity module, DC UPS
further information internet links	
internet link	
to website: Industry Mall	https://mall.industry.siemens.com
to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: power supplies	https://siemens.com/sitop
to website: CAx-Download-Manager	https://siemens.com/cax
to website: Industry Online Support	https://support.industry.siemens.com
	poioupport.iiidddi J.dioiiidiid.doiii

additional information

other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

security information

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)

Classifications

	Version	Classification
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval

For use in hazardous locations





Manufacturer Declaration







For use in hazardous locations

Marine / Shipping

Environment









last modified:

12/22/2024

6EP7133-6AE00-0BN0

Data sheet



SIMATIC ET 200SP PS 24V/10A Stabilized power supply Input: 120/230 V AC Output: 24 V DC/10 A



ype of the power supply network supply voltage at AC supply voltage supply voltag	input	
supply voltage 1 at AC 88 132 V input voltage 2 at AC 170 264 V wide range input overvoltage overload capability 2.3 × Vin rated, 1.3 ms buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering at Vin = 93/187 V line frequency 50/60 Hz line frequency 47 63 Hz line frequency 47 63 Hz line trated input voltage 120 V at rated input voltage 230 V 1.92 A current limitation of inrush current at 25 °C maximum 60 A 212 Value maximum fuse protection type in the feeder recommended LS switch: B/C 10 A/6 A cutput voltage curve at output Controlled, isolated DC voltage output voltage ad DC rated value 24 V output voltage adjustable Yes; via potentiometer adjustable output voltage 22.8 28 V relative overall tolerance of the voltage 2.8 28 V relative overall tolerance of the voltage 0.1 % on slow fluctuation of input voltage 150 mV voltage peak maximum 150 mV typical 50 mV voltage peak maximum 240 mV type of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	type of the power supply network	1-phase AC
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line frequency line to requency line frequency line freduency line frequency line frequency line freduency line freduency line frequency line freduency line freduency line freduency line freduency line frequency line freduency line		20 ms
line frequency 47 63 Hz input current • at rated input voltage 120 V • at rated input voltage 230 V 1.92 A current limitation of inrush current at 25 °C maximum 6.0 A 12t value maximum 6.3 A²-s fuse protection type T 6.3 A/250 V (not accessible) fuse protection type in the feeder recommended LS switch: B/C 10 A/6 A cutput voltage curve at output output voltage at DC rated value 24 V output voltage • at output 1 at DC rated value 24 V output voltage • at output voltage relative overall tolerance of the voltage on slow fluctuation of input voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical olippical maximum • typical display version for normal operation type of signal at output final for a Hz. A A 4.34 A	operating condition of the mains buffering	at Vin = 93/187 V
input current • at rated input voltage 120 ∨ • at rated input voltage 230 ∨ 1.92 A current limitation of inrush current at 25 °C maximum 60 A 12t value maximum 6.3 A²-s fuse protection type T 6.3 A/250 V (not accessible) fuse protection type in the feeder recommended LS switch: B/C 10 A/6 A voltage curve at output voltage curve at output output voltage at DC rated value 24 V output voltage • at output 1 at DC rated value 24 V output voltage adjustable ves; via potentiometer adjustable output voltage adjustable overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical • maximum • typical display version for normal operation type of signal at output flue A.34 A 4.34 A 4.5 Vota better Brokers Brokers Brokers Brokers Brokers Brokers Brokers Brokers Bro	line frequency	50/60 Hz
at rated input voltage 120 V at rated input voltage 230 V 1.92 A current limitation of inrush current at 25 °C maximum 60 A I2t value maximum 6.3 A² s fuse protection type T 6.3 A/250 V (not accessible) fuse protection type in the feeder recommended LS switch: B/C 10 A/6 A cutput voltage curve at output cutput voltage at DC rated value output voltage at DC rated value output voltage adjustable at output 1 at DC rated value 24 V output voltage adjustable versidual tolerance of the voltage relative overall tolerance of the voltage • at output voltage • on slow fluctuation of input voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical • maximum • typical display version for normal operation trace in the voltage of signal at output type of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	line frequency	47 63 Hz
at rated input voltage 230 V current limitation of inrush current at 25 °C maximum 60 A 12t value maximum 6.3 A²-s fuse protection type 1 F.5.3 A/250 V (not accessible) fuse protection type in the feeder recommended LS switch: B/C 10 A/6 A autput voltage curve at output cutput voltage at DC rated value 24 V output voltage at output 1 at DC rated value 24 V output voltage adjustable yes; via potentiometer adjustable output voltage 22.8 28 V relative overall tolerance of the voltage on slow fluctuation of input voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum typical yoltage peak maximum typical display version for normal operation type of signal at output Relative contact, rating 60 V DC/ 0.3 A) for "24 V OK"	input current	
current limitation of inrush current at 25 °C maximum 12t value maximum 6.3 A²-s fuse protection type fuse protection type in the feeder recommended LS switch: B/C 10 A/6 A output voltage curve at output output voltage at DC rated value • at output 1 at DC rated value output voltage adjustable adjustable output voltage • at output voltage • at output voltage • at output voltage output voltage • at output voltage • at output voltage • at output voltage • at output voltage output voltage adjustable yes; via potentiometer adjustable output voltage 22.8 28 V relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading 1 % residual ripple • maximum • typical • Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	 at rated input voltage 120 V 	4.34 A
L2t value maximum 6.3 A²-s fuse protection type T 6.3 A/250 V (not accessible) fuse protection type in the feeder recommended LS switch: B/C 10 A/6 A output	at rated input voltage 230 V	1.92 A
fuse protection type in the feeder recommended LS switch: B/C 10 A/6 A output voltage curve at output Controlled, isolated DC voltage output voltage at DC rated value 24 V output voltage adjustable 22.8 28 V relative overall tolerance of the output voltage • on slow fluctuation of ohm loading 1% residual ripple • maximum 150 mV • typical voltage padius output 240 mV voltage peak • maximum 240 mV • typical display version for normal operation (Green LED for 24 V OK"	current limitation of inrush current at 25 °C maximum	60 A
fuse protection type in the feeder output voltage curve at output coutput voltage at DC rated value output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical • maximum • typical display version for normal operation type of signal at output Controlled, isolated DC voltage 24 V Controlled, isolated DC voltage 24 V Controlled, isolated DC voltage 24 V Output voltage 24 V Output voltage adjustable Agive value 24 V Output voltage adjustable Agive value 22.8 28 V relative control precision of the output voltage 0.1 % 0.1	I2t value maximum	6.3 A ² ·s
output voltage curve at output Controlled, isolated DC voltage output voltage at DC rated value 24 V output voltage 24 V output voltage adjustable Yes; via potentiometer adjustable output voltage 22.8 28 V relative overall tolerance of the voltage 3 % relative control precision of the output voltage 0.1 % • on slow fluctuation of input voltage 1 % residual ripple • maximum • typical 50 mV voltage peak • maximum • typical 150 mV display version for normal operation Green LED for 24 V OK type of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	fuse protection type	T 6.3 A/250 V (not accessible)
voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value output voltage • at output 1 at DC rated value 24 V output voltage adjustable output voltage adjustable adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading 1 % residual ripple • maximum • typical voltage peak • maximum • typical voltage peak • maximum • typical display version for normal operation type of signal at output Controlled, isolated DC voltage 24 V 24 V 24 V Output voltage 22.8 28 V 3 % Felative control precision of the output voltage 0.1 % 50 mV 50 mV Felative control precision of the output voltage 0.1 % 150 mV Felative control precision of the output voltage 0.1 % 150 mV Felative control precision of the output voltage 0.1 % 150 mV Felative control precision of the output voltage 0.1 % 150 mV Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage 0.1 % Felative control precision of the output voltage	fuse protection type in the feeder	recommended LS switch: B/C 10 A/6 A
output voltage at DC rated value output voltage • at output 1 at DC rated value 24 V output voltage adjustable adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical voltage peak • maximum • typical otherwise typical display version for normal operation type of signal at output 24 V 24 V 24 V 24 V 25 W 26 W 27 Signal at output 24 V 25 W 26 W 27 Signal at output 28 V 29 W 20 N 21 V OK 21 V OK 22 V OK 24 V OK 24 V OK 25 N 26 V OK 26 V OC O.3 A) for "24 V OK"	output	
output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical •	voltage curve at output	Controlled, isolated DC voltage
adjustable output voltage adjustable adjustable output voltage 22.8 28 V relative overall tolerance of the voltage a on slow fluctuation of input voltage and input volt	output voltage at DC rated value	24 V
output voltage adjustable adjustable output voltage 22.8 28 V relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical • maximum • typical • typical • typical • typical • maximum • typical • typical • maximum • typical •	output voltage	
adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 1 % residual ripple maximum typical typical maximum otypical otypical fluctuation 240 mV otypical display version for normal operation Green LED for 24 V OK Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	at output 1 at DC rated value	24 V
adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 1 % residual ripple maximum typical typical maximum otypical otypical fluctuation 240 mV otypical display version for normal operation Green LED for 24 V OK Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	output voltage adjustable	Yes; via potentiometer
relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 1 % residual ripple omaximum typical so mV voltage peak omaximum typical so mV voltage peak omaximum otypical figure 150 mV residual ripple omaximum figure 240 mV otypical figure 150 mV display version for normal operation Green LED for 24 V OK type of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	<u> </u>	
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 1 % residual ripple on maximum otypical voltage peak on maximum otypical typical otypical otypical otypical otypical otypical otypical floor V display version for normal operation type of signal at output relative control precision of the output voltage 0.1 % 0.1 % 0.1 % 0.1 % 0.1 % 0.1 % 0.1 % 0.1 % 0.2 M V V OT Testidual ripple on maximum 240 mV otypical OT Green LED for 24 V OK Type of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	<u> </u>	3 %
 on slow fluctuation of input voltage on slow fluctuation of ohm loading 1 % residual ripple maximum typical voltage peak maximum typical typical of mv typical of mv typical of mv typical of mv typical of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" 		
 on slow fluctuation of ohm loading residual ripple maximum typical voltage peak maximum typical o mv typical typical otypical otypical otypical of reen LED for 24 V OK type of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" 		0.1 %
residual ripple • maximum • typical voltage peak • maximum • typical • typical 150 mV 240 mV • typical 150 mV green LED for 24 V OK type of signal at output Relay contact, rating 60 V DC/ 0.3 A) for "24 V OK"		1 %
 typical voltage peak maximum typical display version for normal operation type of signal at output type of signal at output 50 mV Green LED for 24 V OK Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" 		
voltage peak	• maximum	150 mV
voltage peak	• typical	50 mV
 maximum typical display version for normal operation type of signal at output 240 mV Green LED for 24 V OK Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" 	• •	
display version for normal operation Green LED for 24 V OK type of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"		240 mV
display version for normal operation Green LED for 24 V OK type of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	• typical	150 mV
type of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	• •	Green LED for 24 V OK
		Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"

response delay maximum	0.3 s
voltage increase time of the output voltage	20
• typical	30 ms
output current	
rated value	10 A
rated range	0 12 A; 10 A up to +60°C; +60 +70 °C: Derating 3%/K
supplied active power typical	240 W
short-term overload current	
 on short-circuiting during the start-up typical 	30 A
at short-circuit during operation typical	30 A
duration of overloading capability for excess current	
on short-circuiting during the start-up	750 ms
at short-circuit during operation	800 ms
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	90 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	26 W
during no-load operation maximum	2.8 W
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %
setting time	
load step 10 to 90% typical	1 ms
● load step 90 to 10% typical	1 ms
protection and monitoring	
design of the overvoltage protection	protection against overvoltage in case of internal fault Vout < 31.8 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
response value current limitation	14 15 A
overcurrent overload capability	
• in normal operation	overload capability 150 % lout rated up to 5 s/min
enduring short circuit current RMS value	
• typical	14.1 A
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I
leakage current	
maximum	3.5 mA
• typical	1 mA
protection class IP	IP20
EMC	
standard	
for emitted interference	EN 61000-6-3 Class B
• for mains harmonics limitation	EN 61000-3-2
• for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
certificate of suitability • CE marking	Yes
•	Yes Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
• CE marking	Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2
CE markingUL approval	Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142), cCSAus (CSA C22.2
CE markingUL approvalCSA approval	Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142), cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
CE markingUL approvalCSA approvalEAC approval	Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142), cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes

CB-certificate	Yes
MTBF at 40 °C	1 114 510 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• IECEx	Yes; IECEx Ex ec nC IIC T3 Gc
• ATEX	Yes; ATEX (EX) II 3G Ex ec nC IIC T3 Gc
ULhazloc approval	Yes
• cCSAus, Class 1, Division 2	No
• UKEX	Yes
standards, specifications, approvals marine classification	Tes
shipbuilding approval	Yes
Marine classification association	165
American Bureau of Shipping Europe Ltd. (ABS)	No
French marine classification society (BV)	Yes
Det Norske Veritas (DNV)	Yes
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product De	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	725 kg
total during manufacturing	725 kg
during manufacturing during experation	13.2 kg 711.1 kg
during operation	· · · · · ·
after end of life ambient conditions	0.48 kg
ambient conditions	
ambient temperature	00
during operation	-30 +70; with natural convection
during transport	-40 +85
• during storage	-40 +85
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
type of electrical connection	push-in terminals
• at input	L, N, PE: 1 push-in terminal each for 0.2 2.5 mm² single-core/finely stranded
• at output	+, -: 2 push-in terminals each for 0.2 2.5 mm ²
• for auxiliary contacts	Signaling contact: 2 push-in terminals for 0.2 2.5 mm ²
for signaling contact	2 push-in terminals for 0.2 2.5 mm ²
removable terminal at input	Yes
removable terminal at output	Yes
mechanical data	
width × height × depth of the enclosure	160 × 117 × 74 mm
installation width × mounting height	160 mm × 174 mm
required spacing	
• top	50 mm
• bottom	50 mm
● left	0 mm
● right	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
standard rail mounting	Yes
S7 rail mounting	No
wall mounting	No
housing can be lined up	Yes
net weight	0.7 kg
accessories	
electrical accessories	Redundancy module, buffer module, selectivity module, DC UPS
further information internet links	
internet link	
to website: Industry Mall	https://mall.industry.siemens.com
to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
•	https://www.siemens.com/tstcloud https://siemens.com/sitop
• to web page: selection aid TIA Selection Tool	
to web page: selection aid TIA Selection Toolto web page: power supplies	https://siemens.com/sitop

other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

security information

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)

Version	Classification
14	27-04-07-01
12	27-04-07-01
9.1	27-04-07-01
9	27-04-07-01
8	27-04-90-02
7.1	27-04-90-02
6	27-04-90-02
9	EC002540
8	EC002540
7	EC002540
4	4130
15	39-12-10-04
	14 12 9.1 9 8 7.1 6 9 8 7

Approvals Certificates

General Product Approval

For use in hazardous locations





Manufacturer Declaration







For use in hazardous locations

Marine / Shipping

Environment









last modified:

12/22/2024