SIEMENS

Data sheet 6EP1437-3BA00

SITOP modular/3AC/DC24V/40A

SITOP modular 40 A stabilized power supply input: 400-500 V 3 AC output: 24 V DC/40 A



type of the power supply network 3-phase AC supply voltage at AC 400 V • minimum rated value 500 V • full-scale value 550 V • full-scale value 550 V supply voltage at AC Starting from Vin > 340 V wide range input Yes overvoltage overdoad capability 2.3 × Vin rated, 1.3 ms buffering time for rated value of the output current in the event of power failure minimum 6 ms operating condition of the mains buffering at Vin = 400 V line frequency 5060 Hz line frequency 47 63 Hz input current 2.2 A val rated input voltage 400 V 2.2 A current limitation of inrush current at 25 °C maximum 70 A 12t value maximum 2.8 A*s fuse protection type in the feeder Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) output Voltage curve at output Controlled, isolated DC voltage output voltage at DC rated value 24 V output voltage adjustable Yes; via potentiometer	input		
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• maximum rated value • initial value • initial value • full-scale value supply voltage at AC supply voltage at AC supply voltage overload capability buffering time for rated value of the output current in the event of pover failure minimum operating condition of the mains buffering line frequency line frequency ine frequency ine frequency ine frequency ine frequency • at rated input voltage 400 V current limitation of incush current at 25 °C maximum 70 A 212 value maximum fuse protection type in the feeder output voltage at DC rated value • at output voltage at DC rated value output voltage • at output ovltage • at output ovltage • on slow fluctuation of the voltage • on slow fluctuation of pinty voltage • maximum fuse proferion normal operation fuse proferion of flow output voltage • maximum fuse proferion normal operation fuse proferion of Green LED for 24 V OK voltage gignal at output voltage of signal at output voltage pask • maximum voltage of signal at output	supply voltage at AC		
• initial value • full-scale value 550 V supply voltage at AC wide range input Ves 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 line frequency 10	minimum rated value	400 V	
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wide range input 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 line frequency line frequency 30:60 Hz line frequency 4763 Hz line frequency 4763 Hz line frequency 4763 Hz line frequency 170 A 22 A current limitation of inrush current at 25 °C maximum 2.8 A²-8 fuse protection type none fuse protection type in the feeder Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) voltage curve at output Voltage acurent output Output voltage at DC rated value 24 V output voltage at output 1 at DC rated value 24 V output voltage at output 1 at DC rated value 24 V output voltage at output voltage 24 V. voltage adjustable 42 Ves; via potentiometer adjustable output voltage 24 V. 28.8 V; max. 960 W relative overall tolerance of the voltage 25 version for hormologing relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of input voltage maximum voltage peak maximum display version for normal operation Green LED for 24 V OK via signaling module (6EP1961-3BA10)	• full-scale value	550 V	
overvoltage overload capability Duffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering at Vin = 400 V line frequency So/60 Hz line frequency 47 63 Hz input current • at rated input voltage 400 V current limitation of inrush current at 25 °C maximum 70 A 2.2 A current limitation of inrush current at 25 °C maximum 2.8 A²-s fuse protection type fuse protection type in the feeder corticult breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) cutput voltage curve at output output voltage at DC rated value 42 V output voltage • at output 1 at DC rated value 24 V output voltage adjustable adjustable output voltage relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum voltage version for normal operation display version for normal operation Green LED for 24 V OK type of signal at output via signaling module (6EP1961-3BA10)	supply voltage at AC	Starting from Vin > 340 V	
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current limitation of inrush current at 25 °C maximum 12t value maximum 2.8 A²-s fuse protection type fuse protection type in the feeder cercipitation of inrush current at 25 °C maximum 2.8 A²-s none Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) output voltage curve at output coutput voltage at DC rated value output voltage at output 1 at DC rated value 24 V output voltage adjustable yes; via potentiometer adjustable output voltage 24 28.8 V; max. 960 W relative overall tolerance of the voltage a) s% relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 0.2 % residual ripple maximum 100 mV voltage peak maximum display version for normal operation Green LED for 24 V OK type of signal at output via signaling module (6EP1961-3BA10)	input current		
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fuse protection type in the feeder Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) voltage curve at output Controlled, isolated DC voltage output 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 24 28.8 V; max. 960 W relative overall tolerance of the voltage 0.1 % • on slow fluctuation of input voltage 0.2 % residual ripple • maximum 100 mV voltage peak • maximum 200 mV display version for normal operation Green LED for 24 V OK type of signal at output voltage (GEP1961-3BA10)	current limitation of inrush current at 25 °C maximum	70 A	
Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) voltage curve at output Controlled, isolated DC voltage output 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 24 28.8 V; max. 960 W relative overall tolerance of the voltage 0.1 % • on slow fluctuation of input voltage 0.2 % residual ripple • maximum 100 mV voltage peak • maximum 200 mV display version for normal operation Green LED for 24 V OK type of signal at output voltage in the feeder or circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) Controlled, isolated DC voltage 24 V output voltage DC voltage 24 V output voltage A) or 3RV2711-1DD10 (UL 489) 24 V output voltage adjustable DC voltage 24 V output voltage adjustable Av V 3 %	12t value maximum	2.8 A ² ·s	
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output voltage adjustable adjustable output voltage 24 28.8 V; max. 960 W 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 100 mV voltage peak maximum 200 mV display version for normal operation Green LED for 24 V OK type of signal at output	output voltage		
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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 100 mV voltage peak maximum 200 mV display version for normal operation type of signal at output voltage pade via signaling module (6EP1961-3BA10)	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 on slow fluctuation of ohm loading residual ripple maximum on maximu			
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum 100 mV voltage peak maximum 200 mV display version for normal operation type of signal at output voltage signal at output via signaling module (6EP1961-3BA10)			
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on slow fluctuation of ohm loading residual ripple maximum 100 mV voltage peak maximum 200 mV display version for normal operation Green LED for 24 V OK type of signal at output via signaling module (6EP1961-3BA10)	· · · · · · · · · · · · · · · · · · ·	0.1 %	
residual ripple • maximum voltage peak • maximum 200 mV display version for normal operation type of signal at output certain a signaling module (6EP1961-3BA10)	on slow fluctuation of ohm loading	0.2 %	
● maximum voltage peak ● maximum 200 mV display version for normal operation type of signal at output 100 mV 200 mV Green LED for 24 V OK via signaling module (6EP1961-3BA10)			
● maximum display version for normal operation Green LED for 24 V OK type of signal at output via signaling module (6EP1961-3BA10)		100 mV	
● maximum display version for normal operation Green LED for 24 V OK type of signal at output via signaling module (6EP1961-3BA10)	voltage peak		
type of signal at output via signaling module (6EP1961-3BA10)		200 mV	
type of signal at output via signaling module (6EP1961-3BA10)	display version for normal operation	Green LED for 24 V OK	
	···	via signaling module (6EP1961-3BA10)	

	0.5	
response delay maximum	2.5 s	
voltage increase time of the output voltage		
maximum	500 ms	
output current		
rated value	40 A	
rated range	0 40 A; +60 +70 °C: Derating 2%/K	
supplied active power typical	960 W	
short-term overload current		
at short-circuit during operation typical	120 A	
duration of overloading capability for excess current		
at short-circuit during operation	25 ms	
constant overload current		
on short-circuiting during the start-up typical	46 A	
bridging of equipment	Yes; switchable characteristic	
number of parallel-switched equipment resources for increasing	2	
the power	-	
efficiency		
efficiency in percent	90 %	
power loss [W]		
at rated output voltage for rated value of the output	106 W	
current typical		
closed-loop control		
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	1 %	
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	2 %	
setting time		
 load step 50 to 100% typical 	4 ms	
 load step 100 to 50% typical 	4 ms	
setting time		
• maximum	10 ms	
protection and monitoring		
design of the overvoltage protection	< 35 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Alternatively, constant current characteristic approx. 46 A or latching shutdown	
• typical	46 A	
enduring short circuit current RMS value		
• typical	46 A	
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"	
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	
protection class IP	IP20	
EMC	II AV	
standard	EN FEOOD OLSER D	
for emitted interference	EN 55022 Class B	
for mains harmonics limitation	EN 61000-3-2	
for interference immunity	EN 61000-6-2	
standards, specifications, approvals		
certificate of suitability		
CE marking	Yes	
UL approval	Yes; UL-Listed (UL 508), File E197259; CSA (CSA C22.2 No. 14, CSA C22.2 No. 107.1)	
CSA approval	Yes; UL-Listed (UL 508), File E197259, CSA (CSA C22.2 No. 14, CSA C22.2 No. 107.1)	
UKCA marking	Yes	
EAC approval	Yes	
 Regulatory Compliance Mark (RCM) 	Yes	
NEC Class 2	No	

• SEMI F47	Yes
type of certification	Tes
CB-certificate	No
MTBF at 40 °C	485 437 h
standards, specifications, approvals hazardous environments	400 407 11
certificate of suitability	
IECEx	No
• ATEX	No
ULhazloc approval	No
• cCSAus, Class 1, Division 2	No
• FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	No
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	No
French marine classification society (BV)	No
Det Norske Veritas (DNV)	No
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product Dec	claration
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	3 368.7 kg
during manufacturing	50.4 kg
during operation	3 316.8 kg
after end of life	0.72 kg
ambient conditions	
ambient temperature	
 during operation 	0 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	screw terminal
type of electrical connection • at input	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm ² single-core/finely stranded
**	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm ² single-core/finely stranded
at input at output	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm²
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm²
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² -
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm
 at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top 	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm
 at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left 	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm 0 mm
 at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right 	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm 0 mm
 at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15
 at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting 	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes
 at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting S7 rail mounting 	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No
 at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting S7 rail mounting wall mounting 	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No
 at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No
 at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up net weight 	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No
 at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up net weight accessories	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No Yes 3.2 kg
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up net weight accessories electrical accessories	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² - 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No
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 at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up net weight accessories electrical accessories further information internet links internet link to web page: selection aid TIA Selection Tool 	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm² 240 × 125 × 125 mm 240 mm × 225 mm 50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No Yes 3.2 kg Buffer module, signaling module https://www.siemens.com/tstcloud
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up net weight accessories electrical accessories further information internet links internet link to website: Industry Mall to website: CAx-Download-Manager	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm²

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
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



Manufacturer Declara-

Declaration of Conformity





Miscellaneous

General Product Approval

Environment





last modified:

11/19/2024

