SIEMENS

Data sheet

6EP1437-3BA00

SITOP MODULAR/3AC/24VDC/40A

SITOP modular 40 A Stabilized power supply input: 400-500 V 3 AC output: 24 V DC/40 A *Ex approval no longer available*



type of the power supply network	3-phase AC
supply voltage at AC	
minimum rated value	400 V
maximum rated value	500 V
● initial value	320 V; Starting from Vin > 340 V
● full-scale value	550 V
design of input wide range input	Yes
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
operating condition of the mains buffering	at Vin = 400 V
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	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 63 Hz
input current	
 at rated input voltage 400 V 	2.2 A
current limitation of inrush current at 25 °C maximum	70 A
I2t value maximum	2.8 A ² ·s
fuse protection type	none
• 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	
 at output 1 at DC rated value 	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
 on slow fluctuation of input voltage 	0.1 %
 on slow fluctuation of ohm loading 	0.2 %
residual ripple	
• maximum	100 mV
voltage peak	
• maximum	200 mV
adjustable output voltage	24 28.8 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer; max. 960 W
display version for normal operation	Green LED for 24 V OK

Ope of signal at output vis signaling module (EP1981-SAR10) Debaland if the output voltage No overshood V Vuo (soft Sint) response classy maximum 2.5 s Voltage increased in of the output voltage		
response delay maximum 2.5 a value increase in or the output values 500 ms output current 40 A • nated range 0		
voltage increases time of the output voltage 500 ms odput current 40 A • rated volto 40 A • rated volto 0	behavior of the output voltage when switching on	No overshoot of Vout (soft start)
• maximum 500 ms colust current 40 A • raide range 040 A+ 60 + 70 °C. Dersting 2%/K • raide range 040 A+ 60 + 70 °C. Dersting 2%/K • raide range 040 A+ 60 + 70 °C. Dersting 2%/K • raide range 040 A+ 60 + 70 °C. Dersting 2%/K • raide range range range 040 A+ 60 + 70 °C. Dersting 2%/K • raide range range range range 040 A+ 60 + 70 °C. Dersting 2%/K • raide range range range range range 120 A duration of overleading range range range range 2 ms constant overlead current 46 A product feature Vest switchable characteristic runnete or particle-witched equipment Vest switchable characteristic runnete or particle-witched value of the output 105 W outraid in protocol 190 % resting the output value point rated value of the	response delay maximum	2.5 s
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No. 107.1)• CSA approvalYes; UL-Listed (UL 508), File E197259, CSA (CSA C22.2 No. 14, CSA C22.2 No. 107.1)• cCSAus, Class 1, Division 2No• ATEXNocertificate of suitabilityIECEx• IECExNo• NEC Class 2No	-	
• cCSAus, Class 1, Division 2 No • ATEX No • certificate of suitability No • IECEx No • NEC Class 2 No		No. 107.1)
• ATEX No certificate of suitability • IECEx No • NEC Class 2 No		No. 107.1)
certificate of suitability • IECEx • NEC Class 2 No		
ECEx No No No		NO
NEC Class 2 No	-	
ULhazloc approval No		
	ULhazloc approval	No

FM registration	No
type of certification CB-certificate	No
certificate of suitability	
EAC approval	Yes
certificate of suitability shipbuilding approval	No
shipbuilding approval	
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	No
 French marine classification society (BV) 	No
• DNV GL	No
Lloyds Register of Shipping (LRS)	No
 Nippon Kaiji Kyokai (NK) 	No
EMC	
standard	
for emitted interference	EN 55022 Class B
for mains harmonics limitation	EN 61000-3-2
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	0 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
Mechanics	
type of electrical connection	screw-type terminals
at input	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm ² single-core/finely stranded
● at output	+, -: 2 screw terminals each for 0.33 10 mm ²
 for auxiliary contacts 	
width of the enclosure	240 mm
height of the enclosure	125 mm
depth of the enclosure	125 mm
required spacing	
• top	50 mm
bottom	50 mm
• left	0 mm
● right	0 mm
net weight	3.2 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x15
electrical accessories	Buffer module, signaling module
MTBF at 40 °C	485 437 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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