Sitop Modular 6EP1436-3BA00

URL:https://www.sxplc.com/sitop-modular-6ep1436-3ba00

Product data sheet

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

1.1 A

● at rated input voltage 500 V

0.9 A

current limitation of inrush current at 25 °C maximum

35 A

I2t value maximum

0.7 $A^2 \cdot s$

fuse protection type

none

● in the feeder

Required: 3-pole connected miniature circuit breaker 6 ... 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

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. 480 W

display version for normal operation

Green LED for 24 V OK

type of signal at output

via signaling module (6EP1961-3BA10)

behavior of the output voltage when switching on

No overshoot of Vout (soft start)

response delay maximum

2.5 s

voltage increase time of the output voltage

● maximum

500 ms

output current

● rated value

20 A

● rated range

0 ... 20 A; +60 ... +70 °C: Derating 2%/K

supplied active power typical

480 W

short-term overload current

● at short-circuit during operation typical

60 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

23 A

product feature

● bridging of equipment

Yes; switchable characteristic

number of parallel-switched equipment resources for

increasing the power

2

efficiency in percent

90 %

power loss [W]

● at rated output voltage for rated value of the output

current typical

53 W

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

design of the overvoltage protection

< 35 V

response value current limitation typical

23 A

property of the output short-circuit proof

Yes

design of short-circuit protection

Alternatively, constant current characteristic approx. 23 A or latching

shutdown

enduring short circuit current RMS value

● typical

23 A

display version for overload and short circuit

LED yellow for "overload", LED red for "latching shutdown"

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

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)

● cCSAus, Class 1, Division 2

No

● ATEX

No

certificate of suitability

● IECEx

No

● NEC Class 2

No

● ULhazloc approval

No

● FM registration

No

type of certification CB-certificate

No

certificate of suitability

● EAC approval

Yes

certificate of suitability shipbuilding approval

Yes

shipbuilding approval

ABS, GL

Marine classification association

● American Bureau of Shipping Europe Ltd. (ABS)

Yes

● French marine classification society (BV)

No

● DNV GL

Yes

● Lloyds Register of Shipping (LRS)

No

● Nippon Kaiji Kyokai (NK)

No

standard

● for emitted interference

EN 55022 Class B

● for mains harmonics limitation

EN 61000-3-2

● for interference immunity

EN 61000-6-2

ambient temperature

● during operation

0 ... 70 °C; with natural convection

● during transport

-40 ... +85 °C

● during storage

-40 ... +85 °C

environmental category acc. to IEC 60721

Climate class 3K3, 5 ... 95% no condensation

type of electrical connection

screw-type terminals

● at input

L1, L2, L3, PE: 1 screw terminal each for 0.2 ... 4 mm² single-core/finely

stranded

● at output

+, -: 2 screw terminals each for 0.33 ... 4 mm²

● for auxiliary contacts

-

width of the enclosure

160 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

2 kg

product feature of the enclosure housing can be lined up

Yes

fastening method

Snaps onto DIN rail EN 60715 35x7.5/15

electrical accessories

Buffer module, signaling module

MTBF at 40 °C

711 213 h

other information

Specifications at rated input voltage and ambient temperature +25 °C

(unless otherwise specified)