

output power 480 W Single-phase switching power supply 230 Vac



- Single-phase input 230 Vac
- Short circuit, overload, over temperature, input and output overvoltage protections
- Suitable in civil automation and general applications in the installation of systems
- Suitable for applications in SELV and PELV circuits

PRELIMINARE

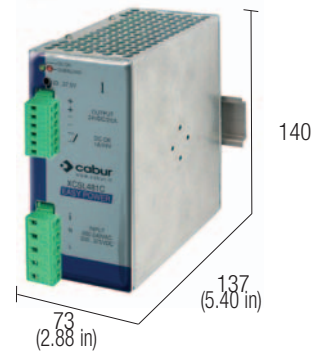
(5.52 in)



(5.40 in)



(2.88 in)



NOTES

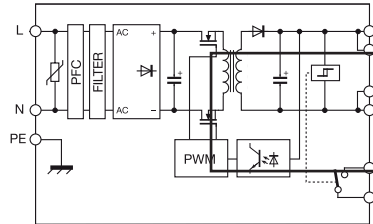
The depth dimension includes the terminal blocks and the DIN clamp.

(3) Over 45°C (113°F) apply a derating of about 16 W/°C

(4) For this peak current, the output voltage does not drop more than 10% of the nominal value, but the current value, provided by the power supply also depends on the total line resistance.

(5) Version available after January 2013

BLOCK DIAGRAM



Items sold until sell-out, will be replaced by **CSL240C** series

VERSIONS

Output 24 Vdc 20 A

Cod. XCSL481C

CSL481C (5)

INPUT TECHNICAL DATA

Input rated voltage

230 Vac (range 187...264 Vac) (2)

Frequency

47...63 Hz

Current @ nominal lout (Uin 120 / 230 Vac)

- / 2 A

Inrush peak current

<20 A

Power factor

> 0,95

Internal protection fuse

-

External protection on AC line

magnetotermico: 6 A curva C - fusibili: T 6,3 A

OUTPUT TECHNICAL DATA

Output rated voltage

24 Vdc

Output adjustable range

23...27.5 Vdc

Continuous current

20 A @ 45°C (3)

Overload limit

28 A (4)

Short circuit peak current

50 A per 0,3 s

Load regulation

< 1%

Ripple @ nominal ratings

≤ 100 mVpp

Hold up time @ In (Uin 120 / 230 Vac)

- / >20 ms

Overload / short circuit protections

hiccup at the overload limit with auto reset / over temperature protection

Status display

"DC OK" green LED

Alarm contact threshold

21,6 Vdc

Parallel connection

possible

Redundant parallel connection

possible with external ORing diode

GENERAL TECHNICAL DATA

Efficiency (Uin 120 / 230 Vac)

- / >92%

Dissipated power (Uin 120 / 230 Vac)

- / 42 W

Operating temperature range

-20...+60°C, with derating over 45°C / over temperature protection (3)

Input/output isolation

3 kVac / 60 s SELV output

Input/ground isolation

2 kVac / 60 s

Output/ground isolation

0.5 kVac / 60 s

Standard/approvals

EN50178, EN61558, EN60950, IEC950, UL508

EMC Standards

EN61000-6-2, EN61000-6-4, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11

MTBF @ 25°C @ nominal ratings

>400'000 h acc. to SN 29500 / >100'000 h acc. to MIL Std. HDBK 217F

Overvoltage category/Pollution degree

II / 2

Protection degree

IP 20 IEC 529, EN60529

Connection terminal

2.5 mm² pluggable screw type

Housing material

aluminium and stainless steel

Approx. weight

1 kg (35.27 oz)

Mounting information

vertical on rail, allow 10 mm spacing between adjacent components

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35-7.5

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB

Mounting rail type according to IEC60715/G32