

Single-phase switching power supply 120-230 Vac 120 W output power

- Single-phase input 85...264 Vac / 100...370 Vdc
- Short circuit, overload, over temperature, input/ output overvoltage protections
- Push-in connection, external tools unnecessary
- Alarm contact with undervoltage relay
- Compact dimensions
- Suitable for applications in SELV and PELV circuits



LxPxH: 40x115x115 mm



UL pending

NOTE

- (1) With 100...127 Vdc, the output current shall be reduced by 25%
- (2) The value of the supplied current also depends upon the line resistance

VERSION

Standard	CL1-120W/024V/AA	Cod XCSL1120W024VAA
Coated version	CL1-120W/024V/GA	Cod XCSL1120W024VGA

INPUT TECHNICAL DATA

Input rated voltage	120–230 Vac (range 90...264 Vac / 100...370 Vdc) (1)
Frequency	47...63 Hz
Current @ nominal Iout (Uin 120 / 230 Vac)	1.5 A / 0.8 A ± 10%
Inrush peak current	< 15 A
Power factor	> 0.5
Internal protection fuse	T 3.15 A
External protection on AC line	circuit breaker: 4 A - C characteristic- fuse: T 4 A

OUTPUT TECHNICAL DATA

Output rated voltage	24 Vdc
Output adjustable range	16 ... 28 Vdc
Continuous current	5 A
Overload limit	>6.2 A for >30 s with Uout >21.6 V (2)
Short circuit peak current	15 A for 50 ms (2)
Load regulation	< 2%
Ripple @ nominal ratings	50 mVpp
Hold up time @ In (Uin 120 / 230 Vac)	>20 ms / >20 ms
Overload / short circuit protections	hiccup at the overload limit with auto reset / over temperature protection
Status signals	LED green "DC OK" / allarm contact "DC OK"
Uout threshold for alarm contact	<22.0 Vdc
Parallel connection	possible
Redundant parallel connection	possible with external Oring diode

GENERAL TECHNICAL DATA

Efficiency (Uin 120 / 230 Vac)	>85% 7 85%
Dissipated power (Uin 120 / 230 Vac)	21.2 W / 21.2 W
Operating temperature range	-20...+70°C, with derating -3 W/°C over 50°C / thermal protection
Input / output isolation	3 kVAc / 60 s output SELV
Input / ground isolation	1.5 kVAc / 60 s
Output / ground isolation	0.5 kVAc / 60 s
Standard / approvals	EN60950, UL508, UL60950
EMC Standards	EN61000-6-2, EN61000-6-4
Overvoltage category / Pollution degree	II / 2
Protection degree	IP 20 IEC 529 EN60529
Connection terminal	push-in connection 2.5 mm²
Housing material	aluminum
Approx. weight	400 g
Mounting information	vertical on rail, allow 20 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