

POWER SUPPLY 1-PHASE, 24 V DC DIMENSION C SERIES

CS5.241-C1

POWER SUPPLY 24VDC 5A COATED

- Leveys 32 mm
- Width 32mm
- Efficiency 90%
- 5A-model has a 20% power reserve



PRODUCT DESCRIPTION

The DIMENSION C-Line units are cost optimized power supplies without compromising quality, reliability and performance. The C-Line is part of the DIMENSION power supply family, existing alongside the high featured Q-Line.

The CS3.241 includes all the essential basic functions but also includes important features of small size, high efficiency, wide temperature range and is NEC Class 2 compliant.

The CS5.241 includes all the essential basic functions and the devices have a power reserve of 20%. This extra current may even be used continuously at temperatures up to +45°C.

The most important features are the small size, high efficiency and the wide temperature range.

The Auto-select input makes worldwide installation and usage very simple. Defects or system failures caused by wrongly set switches cannot occur.

High immunity to transients and power surges as well as low electromagnetic emission and a large international approval package for a variety of applications makes this unit suitable for nearly every situation.

- AC 100-240V Wide-range Input
- Width only 32mm
- NEC Class 2 Compliant
- Full Power Between -25°C and +60°C
- Optional with Conformal Coated PC-boards (CS5.241-C1)
- Optional with Spring-clamp Terminals (CS5.241-S1)
- Efficiency up to 90.2%
- Easy Fuse Breaking due to High Overload Peak Current
- 20% Output Power Reserves
- Full Power Between -25°C and +60°C
- Minimal Inrush Current Surge
- 3 Year Warranty

SPECIFICATIONS

Input voltage range	Auto-select
Number of phases	1
Input voltage AC	100-120, 200-240 V
Input voltage ac min	90 V AC

Input voltage ac max	264 V AC
Inrush current at 120 V ac typical	3 A
Input current at 230 V ac typical	3 A
Power Factor at 120 V AC, full load. Typical	56
Power Factor at 230 V AC, full load. Typical	0.47
Supply Frequency	50-60 ±6 %
Power Consumption At 120 V AC	2 A
Power Consumption At 230 V AC	1.23 A
Type Power Supply	AC-DC
Output voltage	24 V DC
Output voltage min	24 V DC
Output voltage max	28 V DC
Output Current	5 A
Effect	120 W
Power Reduction Of 60 To 70 ° C	3 W/°C
Ripple. max	50 mV pp
Temperature Range Without Derating From	-25 °C
Temperature Range Without Derating To	60 °C
Efficiency At 120 V AC, full load. Typical	89.4 %
Efficiency At 230 V AC. Typical	87.8 %
Efficiency At 230 V AC, full load. Typical	90.2 %
Lifetime at 120 V ac, full load and +40 ° C	58000 h
Lifetime at 230 V ac, full load and +40 ° C	72000 h
MTBF (IEC 61709) 230 V AC, Maximum Load, 40 ° C	869000 h
Width	32 mm
Height	124 mm
Depth	117 mm
Weight	0.5 kg
Clamp type	Screw
Series	Dimension C

Approvals	ABS, CB, CE, CSA US, cRUus, cULus, GL
Material Protection	Aluminium
Hold-up time at 120 V AC, full load. Typical.	80 ms
Hold-up time at 230 V AC, full load. Typical.	78 ms
IP Class	IP20
Active Transient	Yes
Conformal coated	Yes

