

POWER SUPPLY 1-PHASE, 24 V DC PIANO SERIES

PIC240.241D Powersupply 115-230VAC 24VDC/10A DC OK

- Output current of 10 A
- Up to 91.4% efficiency
- Only 49 mm wide
- DC-OK relay output

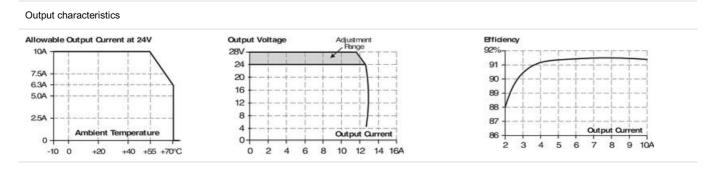


PRODUCT DESCRIPTION

These PIANO series units are extraordinarily compact, industrial grade power supplies that focus on the essential features required in today's industrial applications. The excellent cost/performance ratio presents many new and exciting opportunities without compromising quality or reliability. The mechanically robust housing is made of a high-grade, reinforced molded material, which permits the units to be used in surrounding temperatures up to +70°C.

Since typical industrial applications do not require multiple mains inputs, the reduction to a regional input voltage range (AC 200 240V) simplifies the circuitry and has significant advantages for reliability, efficiency and cost.

The integrated DC-OK signal makes the unit suitable for many industry applications, such as process, automation and many other critical applications where preventive function monitoring can help to avoid long downtimes.



PULS



- A = Primary side, 230 V ac
- B = Secondary side, 24-28 V dc
- C = Potentiometer for voltage output
- D = DC-OK LED Lights green when the output voltage is over 18 V dc
- E = DC-OK output relay

SPECIFICATIONS

Input voltage range	Wide-range
Number of phases	1
Input voltage AC	100-240 V
Input voltage ac min	90 V AC
Input voltage ac max	264 V AC
Inrush current at 120 V ac typical	14 A
Inrush current at 230 V ac typical	26 A
Power Factor at 120 V AC, full load. Typical	0.98
Power Factor at 230 V AC, full load. Typical	0.93
Supply Frequency	50-60 ±6 %
Power Consumption At 120 V AC	2.17 A
Power Consumption At 230 V AC	1.18 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	10 A
Effect	240 W
Power Reduction Of 60 To 70 ° C	6 W/°C
Ripple. max	100 mV pp
Temperature Range Without Derating From	-10 °C
Temperature Range Without Derating To	55 °C
Efficiency At 120 V AC, full load. Typical	94 %
Efficiency At 230 V AC. Typical	93.9 %
Efficiency At 230 V AC, full load. Typical	95.2 %
Lifetime at 120 V ac, full load and +40 $^\circ$ C	55000 h
Lifetime at 230 V ac, full load and +40 $^\circ$ C	74000 h
MTBF (IEC 61709) 230 V AC, Maximum Load, 40 ° C	822000 h
Width	49 mm
Height	124 mm
Depth	124 mm
Weight	0.54 kg
Clamp type	Screw
Series	Piano
Approvals	CB, CE, cRUus, cULus
DC relay output	Yes
Material Protection	Polycarbonate
Hold-up time at 120 V AC, full load. Typical.	32 ms
Hold-up time at 230 V AC, full load. Typical.	32 ms
IP Class	IP20

