

## POWER SUPPLY 1-PHASE, 24 V DC PIANO, 10A

PIC240.241C

Powersupply 230VAC 24VDC/10A DC OK

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



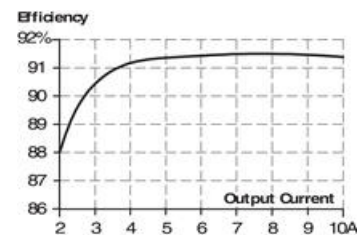
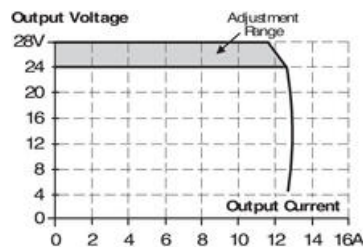
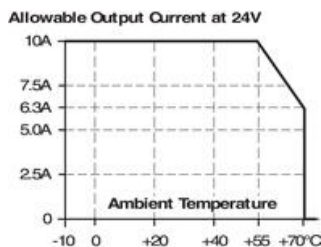
### PRODUCT DESCRIPTION

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.

#### Output characteristics



#### Wiring



- 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

## TECHNICAL DATA

### INPUT DATA

Input voltage ac	200-240 V
Input voltage ac min	180 V AC
Input voltage ac max	264 V AC
Number of phases	1
Inrush current at 230 V ac typical	48 A
Power factor at 230 V ac, full load. Typical	0,52

### OUTPUT DATA

Output voltage min	24 V DC
Output voltage	24 V DC
Output voltage max	28 V DC
Power	240 W
Output current	10 A

### EFFICIENCY / LIFETIME / MTBF

<b>MTBF (IEC 61709) 230 V ac, max load, 40 ° C</b>	791000 h
<b>Efficiency at 230 V ac, full load, typical</b>	91,4 %
<b>Efficiency at 230 V ac, typical</b>	90,9 %
<b>Lifetime at 230 V ac, full load and +40 ° C</b>	38000 h

## DIMENSIONS

<b>Weight</b>	0,55 kg
<b>Depth</b>	124 mm
<b>Width</b>	49 mm
<b>Height</b>	124 mm

## OTHER

<b>Series connection for increased voltage</b>	Yes
<b>IP class</b>	IP20
<b>Cable connection</b>	Screw max 6 mm <sup>2</sup> solid, 4 mm <sup>2</sup> stranded
<b>Ripple max</b>	100 mV pp
<b>Power drop from +60 °C to + 70 °C</b>	6 W/°C
<b>PFA (EN61000-3-2)</b>	Not met
<b>Transient</b>	VDE 0160 (750 V, 1,3 ms)
<b>Parallel connection for increased current</b>	Not allowed
<b>Clamp type</b>	Screw
<b>Temperature min without derating</b>	-10 °C
<b>Load regulation</b>	<150 mV (0-10 A)
<b>Series</b>	Piano
<b>Hold time at 230 V ac, typical full load</b>	33 ms
<b>Power consumption 230 V ac</b>	2,2 A
<b>Supply frequency</b>	50-60 ±6 %
<b>Primary fuse</b>	Min 16A B type or 10A C type
<b>Approvals</b>	CB, CE, cRUus, cULus, GL
<b>Temperature max without derating</b>	55 °C
<b>Material protection</b>	Polycarbonate
<b>Type Power Supply</b>	AC-DC
<b>DC relay output</b>	Yes

