POWER SUPPLY 1-PHASE, 24 V DC PIANO, 5A

PIC120.241D PSU 100-120/200-240V ac I/P 24V dc 5A 120W O/P

- Output current of 5 A
- Up to 90.5% efficiency
- Only 39 mm wide
- Very affordable
- DC OK relay output



PRODUCT DESCRIPTION

Pulse Piano Series is very compact unit that meets the essential industrial demands of today's applications. With the excellent relationship between price and performance gives Piano Series new opportunities without compromising on quality or reliability.

Life expectancy is remarkably high compared to similar products on the market. The long lifetime is achieved through the efficient and sophisticated thermal design, but also through the sole use of detailed quality components. The unit has a MTBF values over 1.7 million hours and a service life of 47,000 hours at 40 ° C.

The powerful house of molded polycarbonate with a clever circuit design and low weight gives great advantages in shock- and vibration-rich environments. In addition, the units very little space in the cabinet and gives a stylish impression.

PIC120.241C the DC-OK relay outputs for status indication of 24 V DC.

Many industrial applications require no more clamping alternative, the reduction of the input voltage is only 230 V AC circuits simplifies and gives significant cost advantages.

A global version of the 115/230 V AC is available, PIC120.241D, for applications where multi voltage required.

TECHNICAL DATA

INPUT DATA

| 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 | 22 A |
| Inrush current at 230 V ac typical | 33 A |
| Input voltage range | Auto-select |
| Power factor at 120 V ac, full load. Typical | 0,64 |



| Power factor at 230 V ac, full load. Typical | 0,54 |
|--|---------|
| Number of phases | 1 |
| OUTPUT DATA | |
| Output voltage | 24 V DC |
| Output voltage min | 24 V DC |
| Output voltage max | 28 V DC |
| Output current | 5 A |
| Power | 120 W |
| | |

EFFICIENCY / LIFETIME / MTBF

| Efficiency at 120 V ac, full load, typical | 91,2 % |
|---|-----------|
| Efficiency at 230 V ac, typical | 90,6 % |
| Efficiency at 230 V ac, full load, typical | 92,3 % |
| Lifetime at 120 V ac, full load and +40 ° C | 68000 h |
| Lifetime at 230 V ac, full load and +40 ° C | 83000 h |
| MTBF (IEC 61709) 230 V ac, max load, 40 ° C | 1379000 h |

DIMENSIONS

| Width | 39 mm |
|--------|---------|
| Height | 124 mm |
| Depth | 124 mm |
| Weight | 0,37 kg |

OTHER

| Approvals | CB, CE, cRUus, cULus |
|---|---|
| Hold time at 120 V ac, typical full load | 51 ms |
| Hold time at 230 V ac, typical full load | 50 ms |
| IP class | IP20 |
| Clamp type | Screw |
| Cable connection | Screw max 6 mm ² solid, 4 mm ² stranded |
| Load regulation | <150 mV (0-5 A) |
| Material protection | Polycarbonate |
| Supply frequency | 50-60 ±6 % |
| Parallel connection for increased current | Not allowed |
| PFA (EN61000-3-2) | Fulfilled (Class A) |

| Primary fuse | Min 10A B type or 6A C type |
|---|-----------------------------|
| Ripple max | 100 mV pp |
| Series | Piano |
| Series connection for increased voltage | Yes |
| Power consumption 120 V ac | 1,72 A |
| Power consumption 230 V ac | 1,05 A |
| Power drop from +60 °C to + 70 °C | 3 W/°C |
| Temperature min without derating | -10 °C |
| Temperature max without derating | 55 °C |
| Transient | VDE 0160 (750 V, 1,3 ms) |
| | |
| Type Power Supply | AC-DC |
| DC relay output | Yes |

















