

REPORT

78 Series

*Discover the complete range
of Switch mode power supplies*



finder®

SWITCH TO THE FUTURE

NEW



Type 78.1B
output 5 A, 24 V DC

Industrial Switch Mode Power Supplies

Type 78.1B

The newest addition to Finder's range of high efficiency power supplies for electrical and electronic applications. Adjustable output voltage with overload and short circuit protection.

Addresses the need for low voltage power within industrial automation systems, control and measurement systems, and LED lighting.

Approvals (according to type) **CE** **cUL** **us**

Front panel replaceable
fuse for Input protection



Thermal protection
with LED status indication
(type 78.1D, 78.2E only)



Auxiliary contact
indication
(type 78.1D, 78.2E only)



78.1B.1.230.2403



78.1D.1.230.2414
78.1D.1.230.2415



78.2E.1.230.2414
78.2E.1.230.2415



Features

- Low stand-by power
- Ambient temperature range: -20...+70°C

- Compact size
- Stand-by power consumption down to 1 W
- High efficiency 93%

- Power factor: 0.998
- Boost current: without time limit
- Suitable for battery charging

- Power factor: 0.998
- Boost current: without time limit
- High efficiency 93%

| | | | |
|---|--|--|--|
| Rated Output Voltage | 24V DC | 24V DC | 24V DC |
| Output Voltage Adjust | 24...28 V | 24...28 V | 24...28 V |
| Rated Output Current | 5 A (230 V AC input) 4.5 A (full input range) | 5.4 A | 10 A |
| Rated Output Power | 120 W (230 V AC input) 110 W (full input range) | 130W | 240W |
| Input voltage range | 100...265 V AC 140...275 V DC (polarised) | 88...265 V AC 95...275 V DC (non-polarised) | 88...265 V AC 90...275 V DC (non-polarised) |
| Dual stage with active Power Factor Corrector | — | YES | YES |
| Dimensions (w x h x d) | 40 x 130 x 104 mm | 40 x 130 x 130 mm | 60 x 130 x 130 mm |

**Auxiliary contact switching mode:
Type 78.xx.x.xxx.24x4 ("positive logic")**

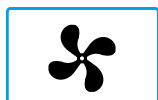
The NO contact closes when power is applied to the unit and remains closed unless there is a serious fault preventing the power supply unit from delivering output current.
(Such as a broken fuse, power supply failure, short-circuit or thermal protection.)

This version is suitable, for example, for signalling to a remote PLC all those alarms representing a service interruption of the power supply output.

**Auxiliary contact switching mode:
Type 78.xx.x.xxx.24x5**

The NO contact closes when an anomaly happens (Overload, short circuit, thermal limit, thermal protection).

This version is suitable, for example, for activating visual or audible alarms, or to activate a cooling fan.



| State | DC OK | ALARM | LED | Contact 13-14 |
|--------------------------------------|-------|-------|------------------------------|-------------------|
| OK | ● | ● | Green bar OFF | NO contact closed |
| Overload for 78.1C and 78.1D only | ● | ● | Green bars OFF | NO contact closed |
| Short circuit | ● | ● | Green bars OFF | NO contact closed |
| Thermal limit | ● | ● | Green bar Red bars OFF | NO contact closed |
| Thermal protection | ● | ● | Red bar OFF | NO contact closed |

| State | DC OK | ALARM | LED | Contact 13-14 |
|--------------------------------------|-------|-------|------------------------------|-------------------|
| OK | ● | ● | Green bar OFF | NO contact open |
| Overload for 78.1C and 78.1D only | ● | ● | Green bars OFF | NO contact closed |
| Short circuit | ● | ● | Green bars OFF | NO contact closed |
| Thermal limit | ● | ● | Green bar Red bars OFF | NO contact closed |
| Thermal protection | ● | ● | Red bar OFF | NO contact closed |

FINDER reserves the right to alter characteristics at any time without notice. FINDER assumes no liability for damage to persons or property, caused as a result of the incorrect use or application of its products.

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