

- > Compact & Cost Effective Design

> Suitable for a wide range of coils

> Accurate current output control

The most comprehensive range of **CURRENT REGULATED Power Supplies**, based on micro controller technology.



POWERBLOCK2 +

The universal solution, suitable to the majority of MEROBEL’s EMP Brakes and Clutches

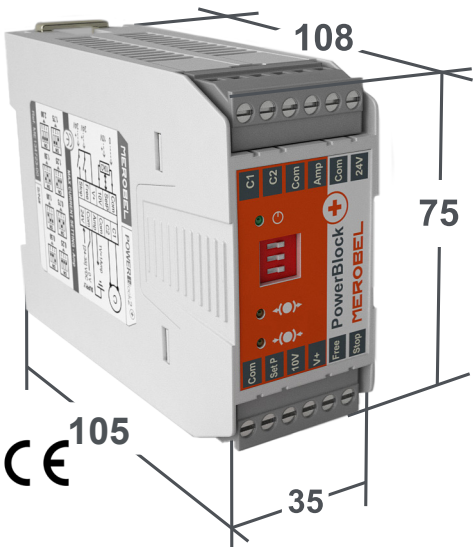
POWERBLOCK4 +

The higher level of output current. Suitable for special coils, or use of devices wired in parallel mode, or other Brake technologies with low impedance coils (i.e. Hysteresis).

POWERBLOCK04 +

Ideal for higher remote control accuracy of Merobel’s smallest size EMP Brakes and Clutches or other Brake technologies with high impedance coils (i.e. Hysteresis).

DIMENSIONS

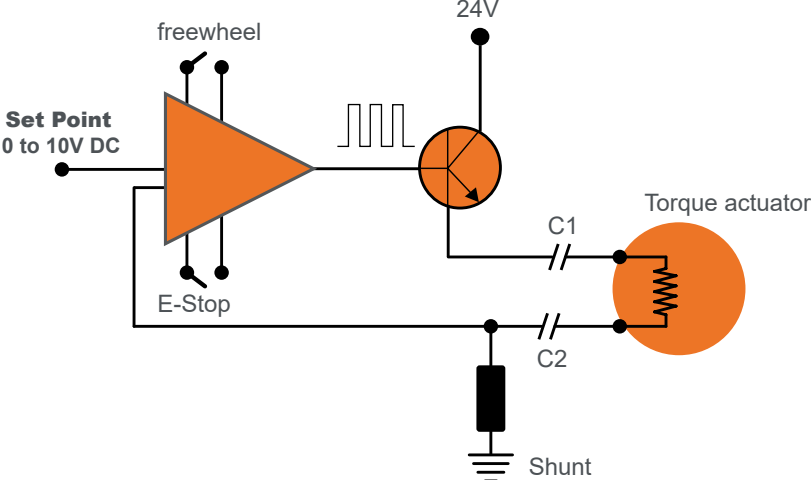
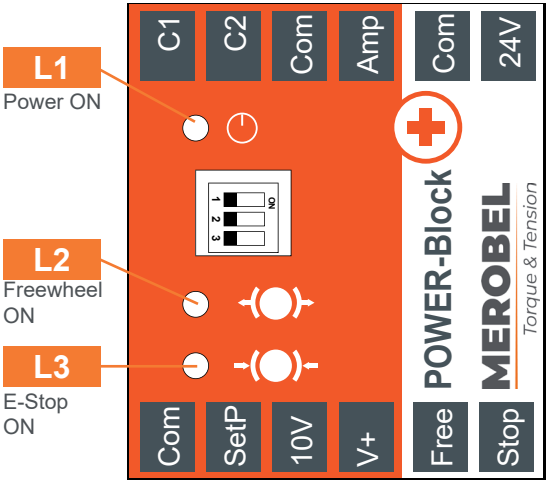


TECHNICAL FEATURES

|                        |        | Pb2+        | Pb4+        | Pb04+       |
|------------------------|--------|-------------|-------------|-------------|
| Part number            | #      | ME134723-00 | ME134826-00 | ME134829-00 |
| Power supply           | [V DC] | 24 → 35     | 24 → 30     | 24 → 35     |
| Max power consumption  | [VA]   | 70          | 120         | 20          |
| Output load resistance | [ohm]  | 5 → 60      | 1 → 10      | 20 → 400    |
| Output max current     | [A]    | 2           | 4           | 0.4         |
| Remote Setpoint        | [V DC] | 0 → 10      | 0 → 10      | 0 → 10      |
| Ambient temperature    | [°C]   | +10 ... +40 | +10 ... +40 | +10 ... +40 |
| Weight                 | g      | 120         | 120         | 120         |

SETTINGS

PRINCIPLE

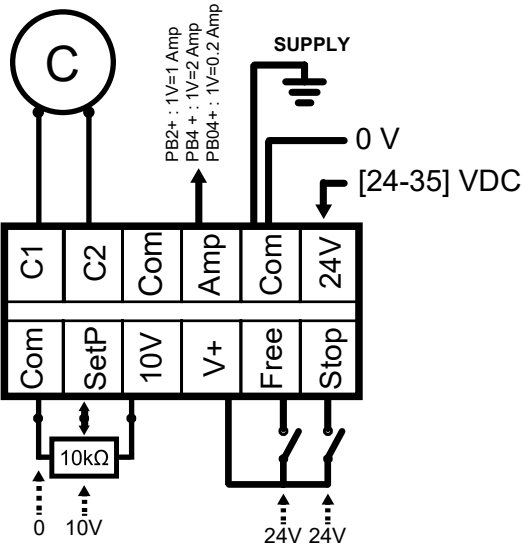


MAX. OUTPUT CURRENT ADJUSTMENT

| PB2+  |       | PB4+  |       | PB04+ |       |
|-------|-------|-------|-------|-------|-------|
|       |       |       |       |       |       |
| 0.25A | 0.50A | 0.50A | 1.00A | 0.05A | 0.10A |
|       |       |       |       |       |       |
| 0.75A | 1.00A | 1.50A | 2.00A | 0.15A | 0.20A |
|       |       |       |       |       |       |
| 1.25A | 1.50A | 2.50A | 3.00A | 0.25A | 0.30A |
|       |       |       |       |       |       |
| 1.75A | 2.00A | 3.50A | 4.00A | 0.35A | 0.40A |

Adjust the max current output using the DIP switch positions.  
E-Stop value refers to the max current value set with the DIP switches.

CONNECTIONS



|         |                                          |
|---------|------------------------------------------|
| C1 / C2 | Brake or Clutch Power Supply (C)         |
| Com     | 0 V                                      |
| Amp     | Real time current equivalent voltage     |
| 0 V     | Equipotential supply point               |
| 24 V    | 24 V Supply                              |
| SetP    | Set point input (0 → 10 V DC)            |
| 10V     | Set point potentiometer supply (10k Ω)   |
| V+      | Logic inputs voltage remote control      |
| Free    | Logic input “Freewheel” mode (0 Amp)     |
| Stop    | Logic input “E-Stop” mode (Max current)* |

\*(max current with DIP switches)