

MOUNTING INSTRUCTIONS

Current regulator power supply for powder brakes

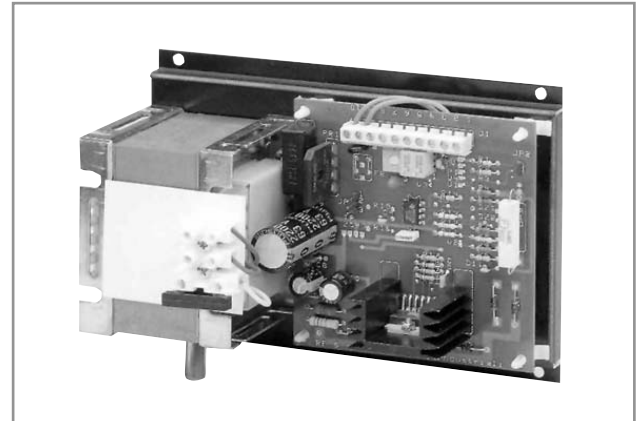
The TCS250 card is specially designed to control powder brakes with optimum yield. It allows to remove powder residual magnetism offering the possibility to operate in low torque ranges. Small size allows a simple wall mounting. Connections by terminal connector fastened by screws.

Technical description :

The TCS250 card is a integrator regulator on frame equipped with a PWM close current loop output.

It has :

- A maximum current limiting potentiometer (TR1)
- A zero adjusting potentiometer (TR2)
- Derivate action potentiometer (TR3) switchable by a bridge JP3 for closed loop



Input signal can be an external reference 0 – 10 Volts or can be provide by a potentiometer 10K.

Current close loop regulation ensure brake torque stability not influenced by tension or temperature variations.



Dont forget to set TR1 for maximum current allowed by your brake or clutch.

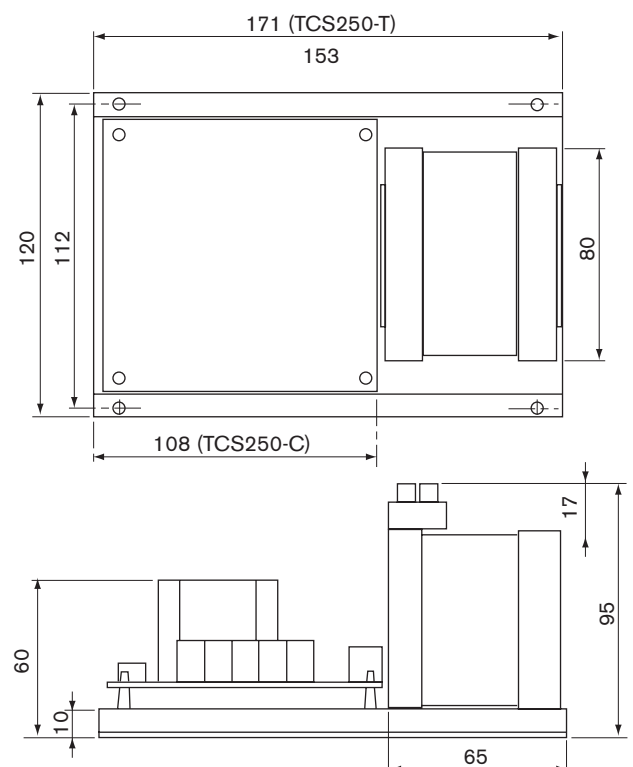
Specifications

TCS250-C (card only) (transformer)	28 VAC or 24 VDC, 75 W ± 10 %
TCS250-T (card with transformer)	110/230VAC – 50/60Hz
Input	0-10 VDC or from potentiometer 10K
Output	0-2 A (modulated output)
Sensibility	10 mV
Repeatability	1% or better
Current limiter	TR1 from -50 to +50 %
Polarization	TR2 from 0 to 100%
Operating temperature	+ 50°C max.
Size	171 x 120 x 95 mm
Weight	1,500 kg
In accordance with:	EN 61000-4-4/A1/A2 EN 61000-4-5/A1 EN 61000-4-11/A1 EN 55011

Available versions :

TCS250-C	Card only
TCS250-T	Card with transformer
B90-26325C	potentiometer 10K 10%

Dimensions (mm)



Connections :

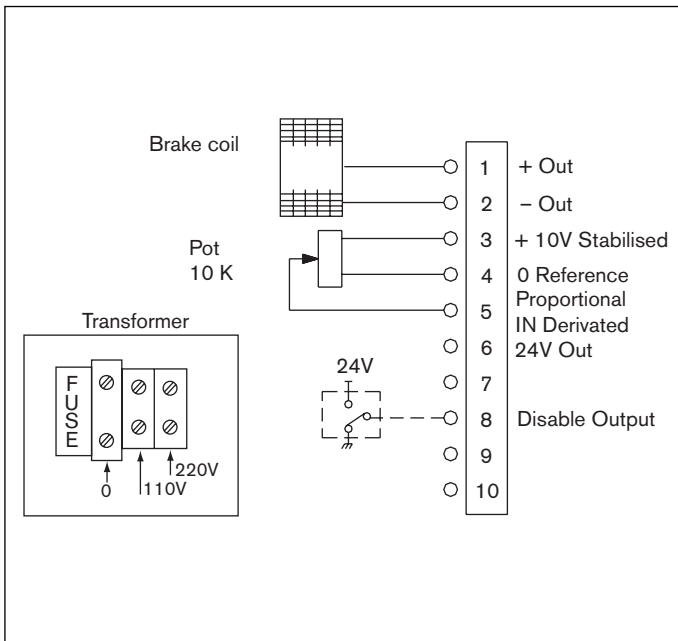
To force the output to zero volt (brake off) we can put 24 VDC on pin 8 of connector JP1. Otherwise put this pin to zero reference (pin 4).

Signalisation :

Green led on → Supply on

Red led on → blown fuse

TCS250-T (110/230 VAC)



TCS250-C (28 VAC or 24 VDC)

