

FACT SHEET ROBO Tronic type 2

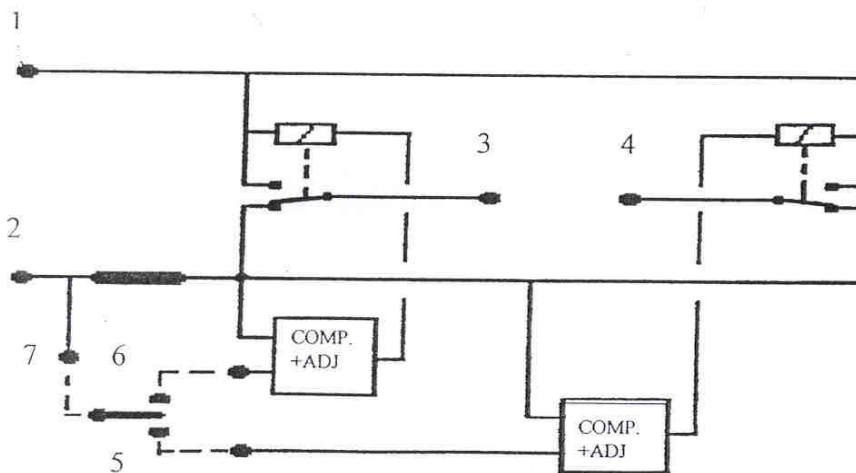
The control unit ROBO Tronic type 2

- is the link between the source of current supply and the permanent magnetic motor
- checks that your motor does what it should do within the scope set by you
- gets its current from a mains power source or battery
- provides secure reversible motor operation

ROBO Tronic type 2 functions

- CONNECTION, DISCONNECTION and POLARITY REVERSAL
12V max 12A, 24V max 8A
- HOLDING BRAKE
short-circuited motor stops in disconnected operation
- ADJUSTABLE LOADING LIMIT/DIRECTION
automatic reset, when activation stop

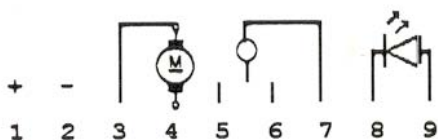
Block diagram



When connecting pin 7 to pin 6 the unit is activated in order that pin 3 supplies + to the motor.

When connecting pin 7 to pin 5 the unit is activated in order that pin 4 supplies + to the motor.

ROBO Tronic type 2 connections



1 and 2 from voltage source
3 and 4 to permanent magnetic motor
5, 6 and 7 electric switch or signal from computer
8 and 9 possible light-emitting diode (for overload indication)

Calibration of overload protection

We reserve the right to make alterations



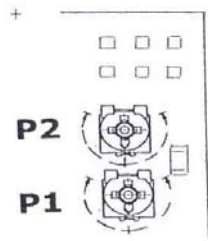
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When connecting pin 7 to pin 6 the unit is activated in order that pin 3 supplies + to the motor. Current limit is set by trimming potentiometer P2, rotation in clockwise direction gives reduced current limit.

When connecting pin 7 to pin 5 the unit is activated in order that pin 4 supplies + to the motor. Current limit is set by trimming potentiometer P1, rotation in clockwise direction gives reduced current limit.



Screw-driver with 2.5 mm broad blade to be used at any adjustment of current limit.

The potentiometer is active within the marked area, but can be mechanically rotated 360°. Note that ROBO Tronic type 2 only functions within the marked area (~260°).

Application instructions

ROBO Tronic type 2 is a part of your application with a number of functions facilitating operation and making your construction safer. It is however important that you are acquainted with its qualities and limitations, as ROBO Tronic type 2 is designed to be as general as possible.

ESSENTIAL FACTORS WHICH HAVE TO BE SURVEYED

- **Current-/ voltage demand**
Check the real current consumption of the motor. During some tenth of a second starting current starts several times higher than operating current at full load. When operating with a mains power source this should be dimensioned in order to keep the voltage up at the moment of starting (at least >85% of the nominal voltage).
At battery operation the contrary situation arises. The in principle unlimited supply of current means that the formation of sparks must be paid attention to during the starting and stop phases.
Over-voltages in the total system can arise due to self-generation through the load. ROBO Tronic type 2 has built-in protections, but 24V operations can under certain operating conditions result in considerable over-voltages, and therefore specific measures may be necessary.
- **Control units**
Electromechanical relays have a certain activation time. The unit should therefore be applied in order that repeated control activations do not take place with too short intervals - leave at least some tenths of a second between each one.
- **Limit position function**
When using ROBO Tronic type 2 as "limit switch" great care is demanded as the mechanical and electrical stress temporarily can be very hard if they are not interacting. Interaction can be achieved e.g. through soft end positions.
- **Suitable applications**
ROBO Tronic type 2 is fundamentally developed for industrial applications and is not intended for applications, where personal injury may arise due to unintentional operating impulses.