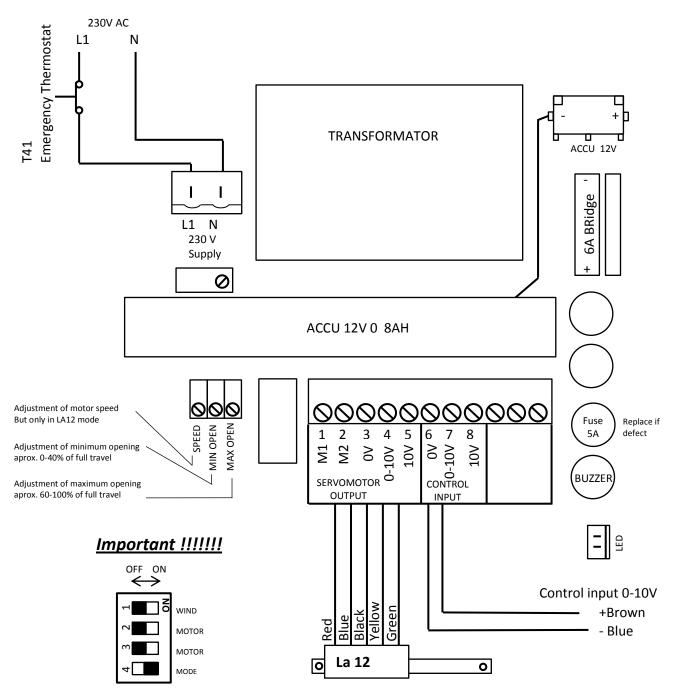
Electrical connection TSN1 - Linak



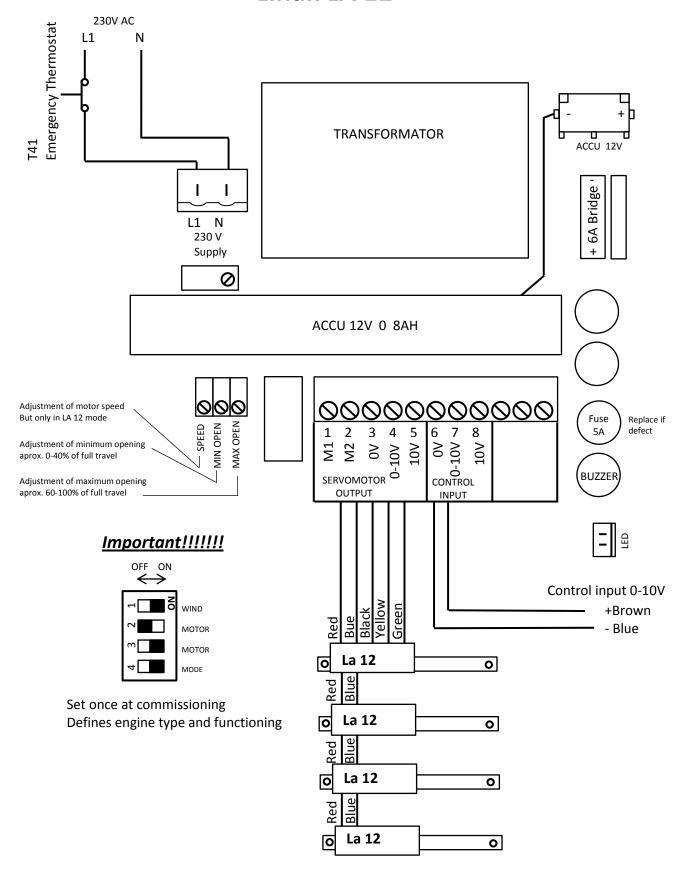
ACO FUNKI Kirkevænget 5 DK7400 Herning Tel. +45 97 11 96 00 www.acofunki.com

Electrical Connection – TSN 1 for Linak LA 12

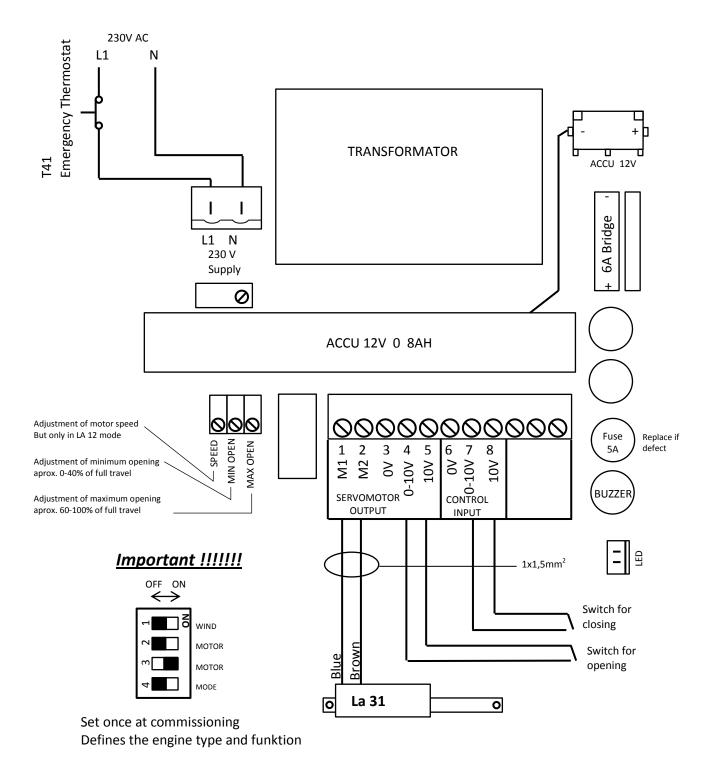


Set once at commissioning
Defines engine type and functioning

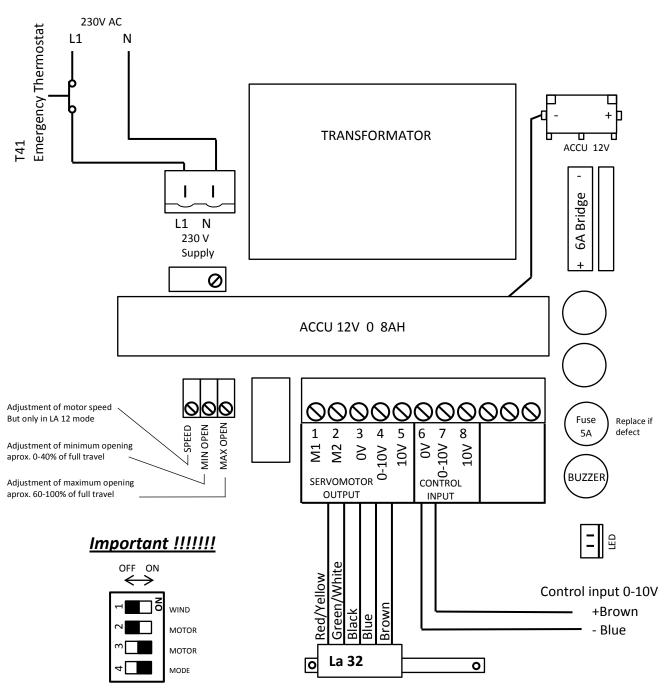
Electrical Connection—TSN 1 for more Linak LA 12



Electrical Connection-TSN 1 for Linak LA 31

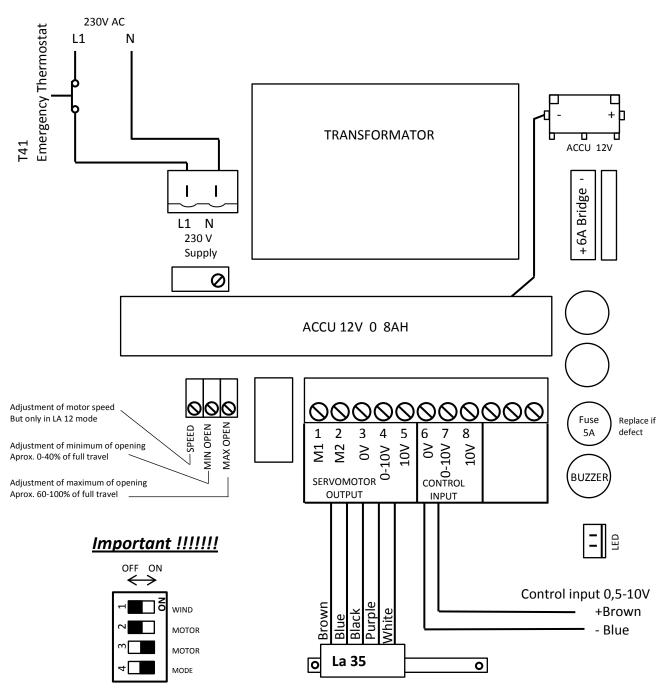


Electrical Connection-TSN 1 for Linak LA 32



Set once at commissioning
Defines the engine type and functioning

Electrical Connection-TSN 1 for Linak LA 35



Set once at commissioning
Defines the engine type and functioning

TSN1V2 FUNCTIONAL DESCRIPTION

- * TSN1 V2 is a modern automatic control unit used to control LINAK actuators.
 Using an actuator, the control unit will set a damper at a position corresponding to the input voltage 0-10V. This voltage can come from a DIGITRON or other temperature regulator.
- The damper position is determined from the input voltage, measured reference position and Max and Min set on the trimmers in the automatic control unit. 2 types of actuators, LA12 or LA32 can be used. LA12 is a high-speed servo with a current limit of 1.4A, LA 32 is a slow servo with greater torque and a current limit of approx. 4A.
- Emergency opening on built-in battery and charging circuit for the battery.

 Automatic stop at limits, also on battery back-up.
- Light-emitting diode indication of operating condition, including faulty connection and failure at current limits.
- * Battery monitor indicates visually and audibly that the battery must be replaced.
- * Option for slave operation, On/Off function from external automatic control unit determines open/close function.
- * Automatic detection of interrupted control signal, opens if cable connections are broken.
- * Adjustment of speed to motor with LA12 operation, enables more precise regulation around set point.
- * Dip switch sets function and motor type, see wiring diagram.
- * T41 thermostat in series with power supply 230V will ensure emergency opening in the event of circuit being broken.
- * Technical specifications:

Input 230V AC +/- 10%
Output 5-24V DC max 4A
Battery 12V / 0.7AH
Charging Fixed 13.8V

Emergency opening Relay/Battery, stops in the event of excessive current.

Control 0-10V DC

Current limit 1.5A for LA12, 4A for LA32

Audio Built-in beeper in the event of failure, etc. (see table)
Lamp Built-in light-emitting diodes for open/close/failure

Certification CE marked

Settings Motor speed, Max opening, Min opening, actuator type, control mode.

* Visual and audio indicators in various situations:

Situation	Light-emitting diodes	Beeper	Remarks
Motor stopped Emergency opening	off off	off off	normal situation electronics off
Short-circuit	rapid push-pull	rapid beep	must be switched off before new operation!
Interrupted control signal Battery flat	rapid push-pull slow push-pull	rapid beep slow beep	automatic reclosing wait until recharging is complete If continues, replace battery
Current limit	medium push-pull	off	direction change resets failure