



## Power controller (3x 3000 W)



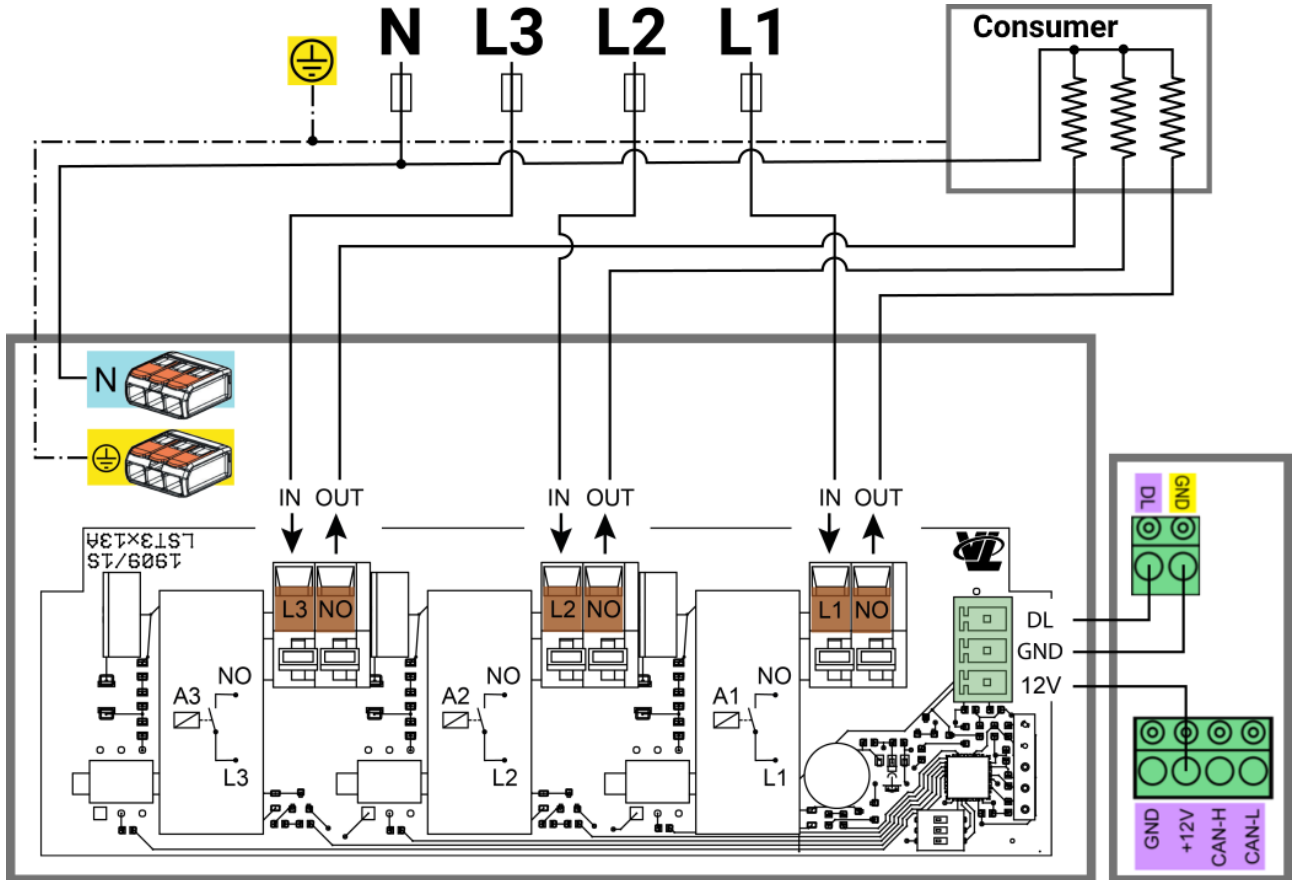
The power controller **LST3x13-DL** switches power for up to three consumers (AC, nominal power max. 3000 W each).

### Terminal diagram

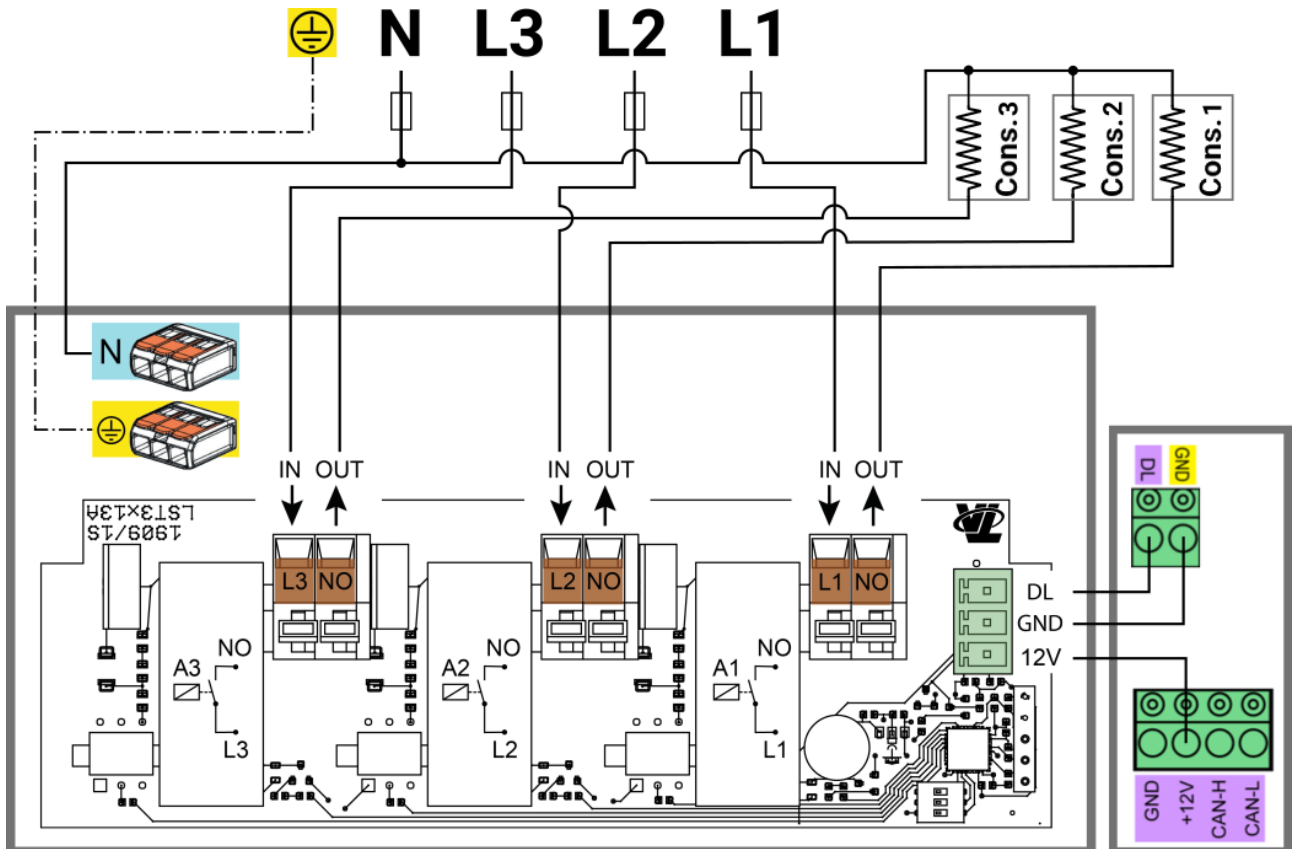
The DL-Bus (**DL** and **GND**) as well as a 12V power supply (e.g. CAN bus) need to be connected. Mind the usage of suitable wire sizes and temperature resistance according to applicable norms.

# 1 consumer

Consumers using all 3 phases must be equipped with a suitable circuit breaker. This use case requires all three outputs to be switched in unison using **Index 4**. If an output is switched off, a blocking time of 5 seconds must pass before it can be switched back on.



# 3 consumers



## Index

All three outputs of the power controller are activated via DL-Bus, either separate using indexes 1-3 or in unison using index 4.

Index	Channel
1	Digital ON/OFF for output 1
2	Digital ON/OFF for output 2
3	Digital ON/OFF for output 3
4	Digital ON/OFF for all outputs (dominant)

Additionally, the power controller sends the status of all outputs to the DL-Bus. These values can be read using DL inputs with indexes 1-3.

Index	Channel
1	Digital ON/OFF for status of output 1
2	Digital ON/OFF for status of output 2
3	Digital ON/OFF for status of output 3

## DL address

The power controller's address is 1 as per factory settings. Dip switches on the PCB are used to change the address. The effective address is derived from address 1 (= factory setting) plus the sum of all the values of the DIP switches set to ON.

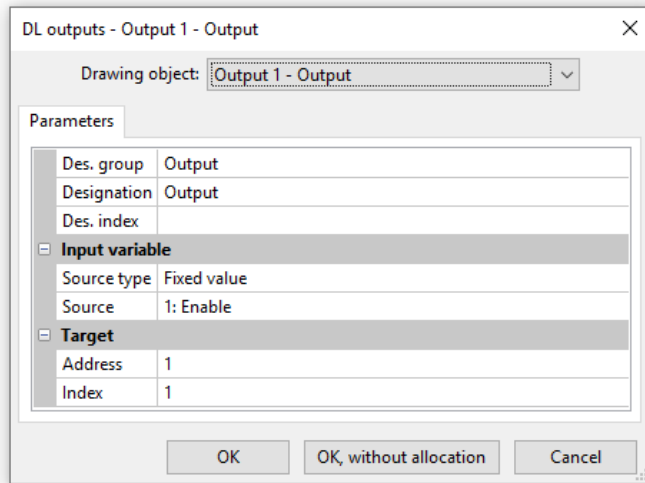
### Example:

desired address	<b>6</b>
factory setting	1
dip switches 1 and 4	+ 5
sum = address	<b>= 6</b>
dip switches 1 and 4 must be set to <b>ON</b> .	



Correct position of dip switches according to example.

# Programming



The outputs of the power controller are switched using the DL-Bus. A DL-Bus output transmitting a digital signal (ON/OFF) is used for this.

**Example:** The first output of a power controller (address 1) is switched on using index 1. In the example, the signal comes from a digital fixed value, but the source of the signal is irrelevant, as long as a digital signal (ON/OFF) is used.

## Technical data

DL-Bus load	10%
Power consumption	max. 1,2 W
IP rating	IP40
Input voltage	max. 1,5 mm <sup>2</sup>
Max. ambient temperature	45 °C
Fuse	<b>No internal fuse</b> Device and consumer must be fused (16A) according to norms
Resistive load	3000 W
Inductive load	max. starting current 25 A
Capacitive (electronic) load	not suitable

Subject to technical modifications.

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