

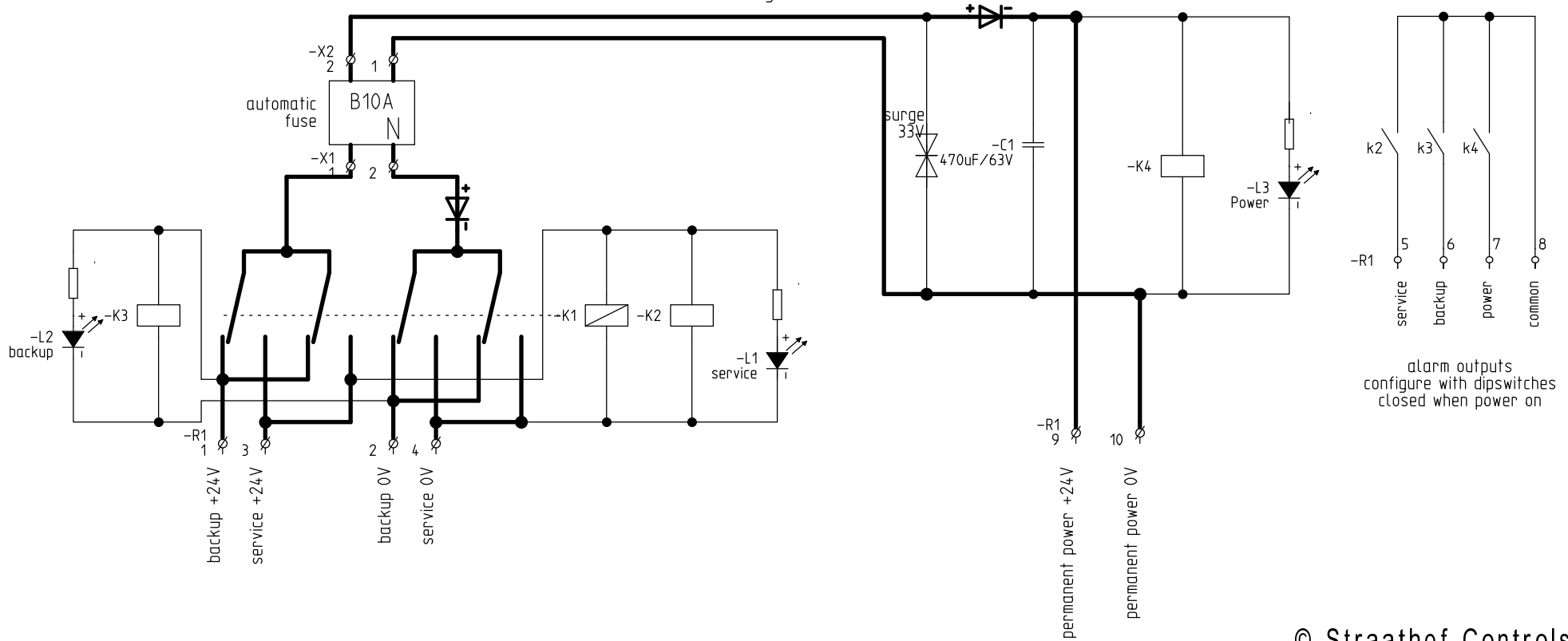
**SETUP OF THE CIRCUIT**

Two different power sources come in on terminals R1-1,2,3 and 4. relay K1 selects if backup power or service power will be delivered to the circuit.  
 As soon as service power is available, service power is selected.  
 The circuit around -T4 takes care of release of K1 at a power level of ± 15V. K1 will come in again above 18V.  
 Diode D1 avoids the circuit for damage if one of the power sources is connected with reversed polarity.  
 The power runs through a 10A circuitbreaker to make protected power for the auxillary circuit.  
 Capacity C1 keeps the power high at the moment that K1 switches from service power to backup power.  
 Surge S1 will trip the circuit breaker if the voltage becomes higher than 33V.  
 power is available now at R1-9 and 10.

**ALARMS**

Each circuit/power source is detected with an alarm relay:  
 K2 detects if service power is available (switches off on the same voltage level as K1)  
 K3 detects if backup power is available  
 K4 detects if auxillary power is available  
 The alarm contacts can be configured in different setups, depending on the setup of the total alarm circuit on the vessel.

The circuit board contains 3 internal led's to show if circuits are available and running.



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function diagram

|              |                           |           |                |        |
|--------------|---------------------------|-----------|----------------|--------|
| Projectname: | Voedingsprint klein Rev B | Function: | Rev.:          | Tek.:  |
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