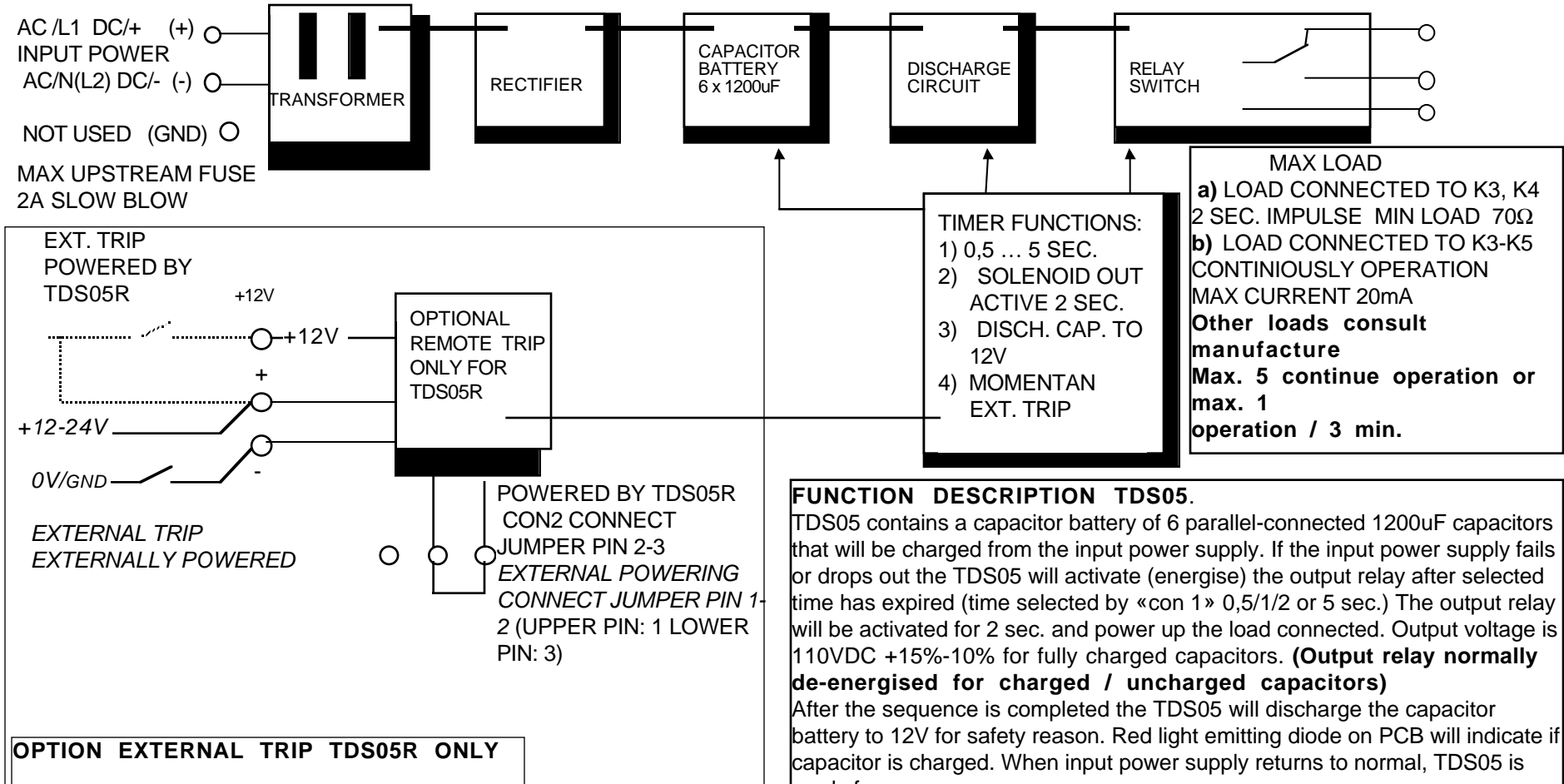


HEGNA ELECTRONICS AS, RØRKOLLVN. N-3160 STOKKE NORWAY.

TDS05 / TDS05R ZERO VOLTAGE TRIP UNIT WITH SEVERAL OPTIONS

REV.1/11.11.99

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FUNCTION DESCRIPTION TDS05.
 TDS05 contains a capacitor battery of 6 parallel-connected 1200uF capacitors that will be charged from the input power supply. If the input power supply fails or drops out the TDS05 will activate (energise) the output relay after selected time has expired (time selected by «con 1» 0,5/1/2 or 5 sec.) The output relay will be activated for 2 sec. and power up the load connected. Output voltage is 110VDC +15%-10% for fully charged capacitors. **(Output relay normally de-energised for charged / uncharged capacitors)**
 After the sequence is completed the TDS05 will discharge the capacitor battery to 12V for safety reason. Red light emitting diode on PCB will indicate if capacitor is charged. When input power supply returns to normal, TDS05 is ready for a new sequence.

Optional function for TDS05R.
 TDS05R has an input for external trip. Activating the external trip will energise the output relay. Note that the external signal must not be active for more than 2 sec.