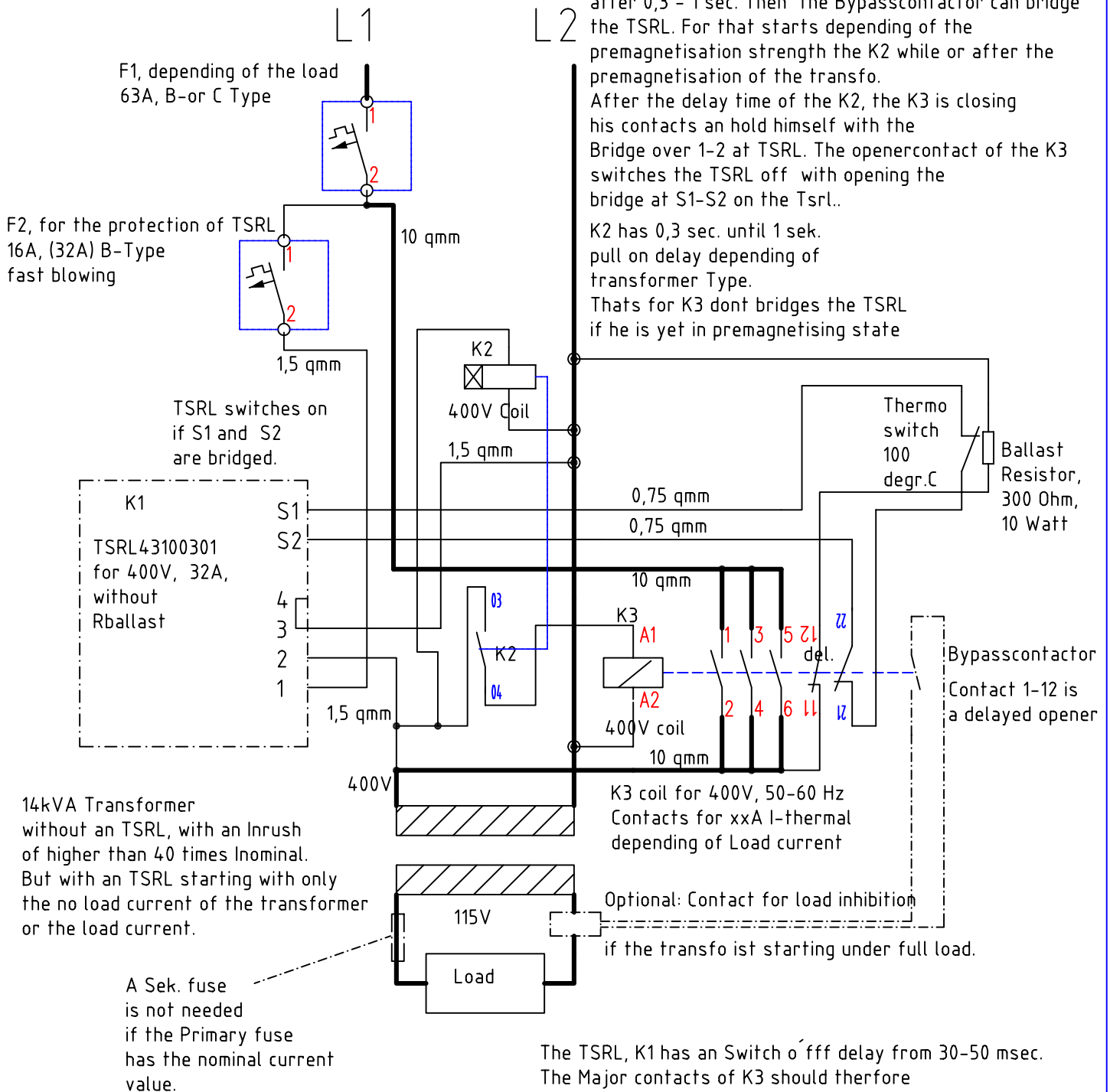


Trafo Schaltrelais Application for 50A or higher. for 400V, + - 10%, with an 32A TSRL

The TSRL starts after grid Power on.
After premagnetisation, the TSRL switches itself full on after 0,3 - 1 sec. Then the Bypasscontactor can bridge the TSRL. For that starts depending of the premagnetisation strength the K2 while or after the premagnetisation of the transfo.
After the delay time of the K2, the K3 is closing his contacts an hold himself with the Bridge over 1-2 at TSRL. The openercontact of the K3 switches the TSRL off with opening the bridge at S1-S2 on the Tsrl..
K2 has 0,3 sec. until 1 sek. pull on delay depending of transformer Type.
Thats for K3 dont bridges the TSRL if he is yet in premagnetising state



The TSRL, K1 has an Switch off delay from 30-50 msec.
The Major contacts of K3 should therefore
20 msec. close after the opener contact 21-22
at K3 opens. Thats for the TSRL dont switch off
earlier than bridging him from K3 contacts.

Drawn from M.KONSTANZER	27.03.07 20.11.13 geändert	Application: TSRL for 400 V Transformers with greather than 32A Primärycurrent,	Skala M=1:1
EMEKO-ING.BUERO		TRANSFORMER-SOFTSTART-400V-50A	
		TSRLA15-E.DWG	Ausgabe 2 Blatt 1