Topic: Regenerative operation COMBIVERT R6-S 25R6S3R-xxxx with de-coupling diodes

This information contaisns a wiring diagramm for regenerative operation with a KEB COMBIVERT R6S 25R6S3R-xxxx with decoupling diodes.

Range of validity

Regenerative unit of R6-S series with part No. : 25R6S3R-xxxx

further products on request

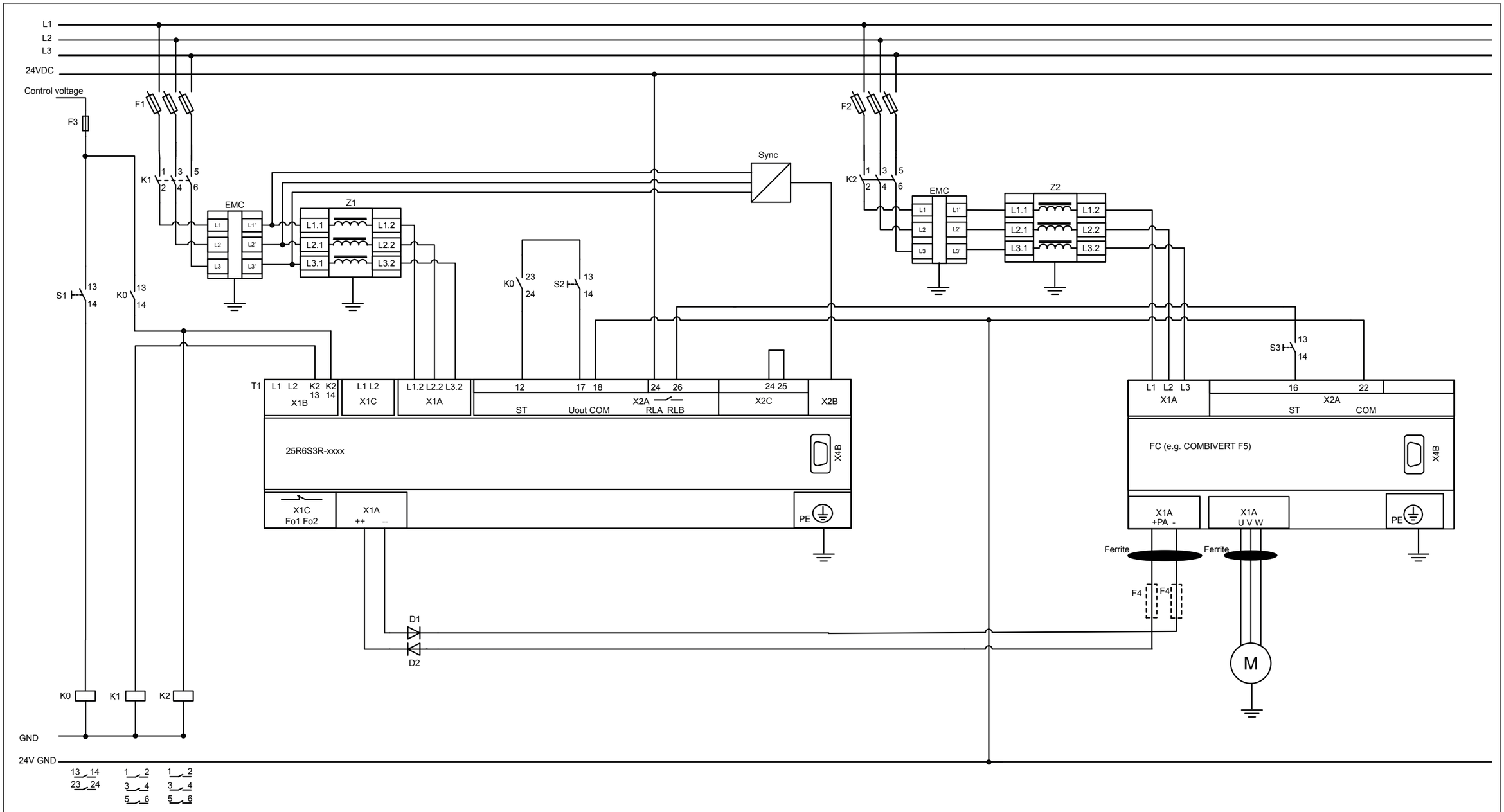

Figure 1: Regeneration KEB COMBIVERT R6-S 25R6S3R-xxxx with decoupling diodes

F1	Line fuse R6 type aR/gR	
F2	Line fuses frequency inverter	
F3	10A fuse for control gL/gG	
F4	Optional dc-fuses type aR/gR	The cunductor size and the dc-fuses musst be dimensioned to the dc-current of the load..
S1/K0	Power on/off	
S2/S3	External control release	
K1	regenerative contactor	
K2	mains contactor	
EMC	EMC-Filter	
Sync	Synchronisation unit (max. length of phase wire 1m)	
Z1	commutation reactor R6	
Z2	mains choke / harmonic filter / frequency inverter	
T1	Power supply / regenerative 25R6S3R-xxxx	
	X1A	power circuit terminals
	X1B	Connector for mainscontactor
	X1C	Connection for precharging and dc-fuses
	X2A	Control terminal strip
	X2B	Connection for synchronization line
	X2C	Activation of the line contactor self-holding
	X4B	HSP5 operator interface
D1/D2	Decoupling diodes (see annex of instruction manual)	
FC	Frequency inverter	
M	Motor	

Table 1: Legend to figure 1

Attention

Destruction of regenerative unit!

- ► External precharge ≤ 10s.
- ► Load extraction only when relay 1 is ready for operation
- ► In case of failure the mains contactor with S1/K1 must disconnect from the supply system.

Instructions

The parallel operation of frequency inverter and R6-S causes in regeneration operation a circulating current. It depends on the inductance of the mains choke The entire regenerative power is 70...90% of the R6-S regenerative power.

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