

**Topic: Power supply and regenerative operation COMBIVERT R6-S
25R6S3R-xxxx at parallel operation of up to three R6-S**

This information contains a wiring diagramm for regenerative operation of up to three 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

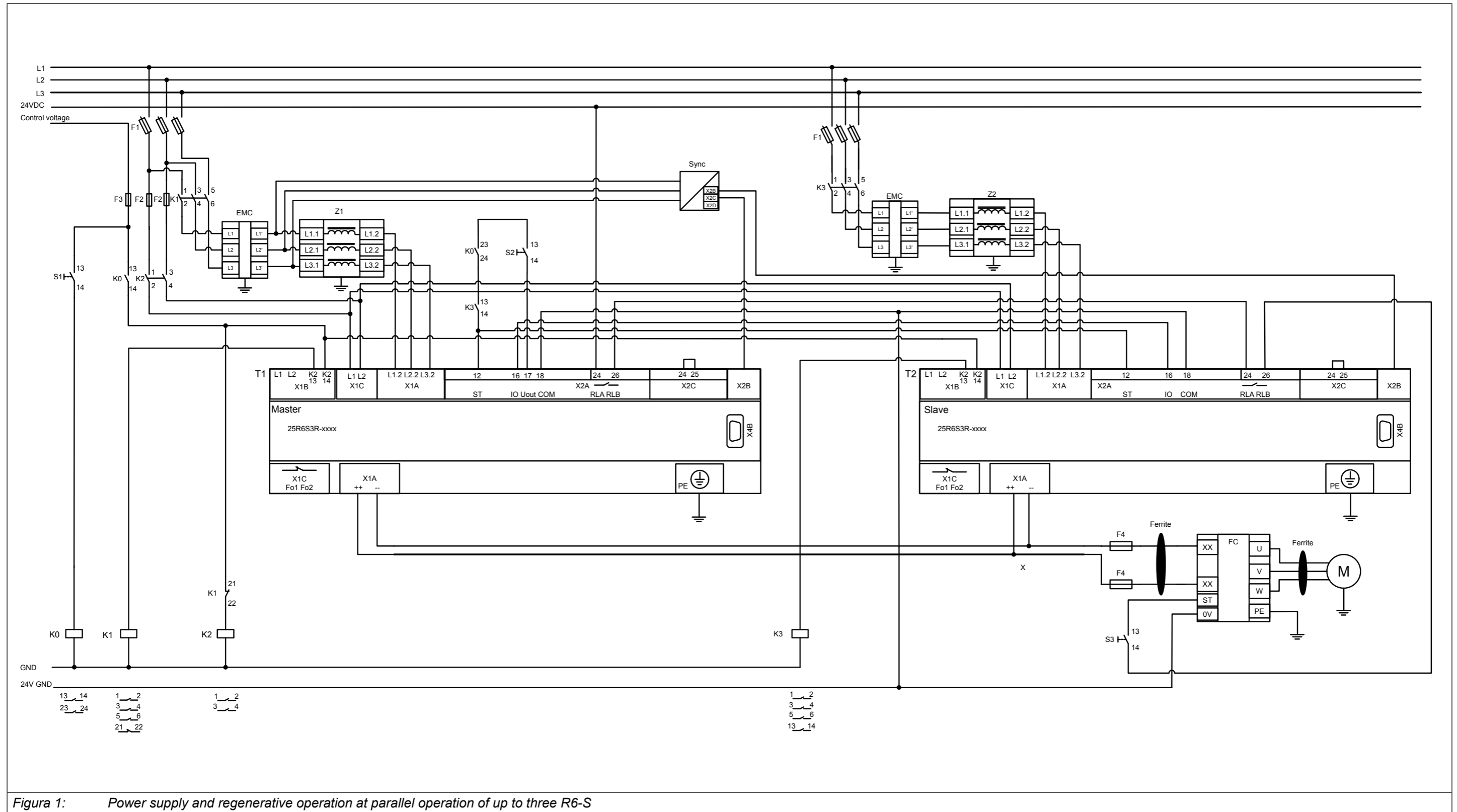


Figura 1: Power supply and regenerative operation at parallel operation of up to three R6-S

F1	Mains fuse R6 type aR/gR with monitoring	
F2	20A pre-charging fuse gL/gG or automatic circuit breaker characteristic K	
F3	10A fuse for control gL/gG	
F4	DC-fuses type aR/gR	The conductor size and the dc-fuses must be dimensioned to the dc-current of the load..
S1/K0	Power on/off	
S2/S3	External control release	
K1/K3	mains contactor	
K2	Pre-charging contactor (400 V / 26AAC3)	
EMC	EMC-Filter	
Sync	Synchronisation unit (max. length of phase wire 1m)	
Z1/Z2	commutation reactor / harmonic filter	
T1/T2	Power supply / regenerative 25R6S3R-xxxx (Master and Slave must be defined by parameterisation)	
	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	
X	External terminal	
FC	Frequency inverter	
M	Motor	
<i>Table 1: Legend to figure 1</i>		

Attention

Destruction of regenerative unit!

- ▶ Pay attention to phase coincidence
- ▶ Monitor mains- and dc-fuses (X1C).
- ▶ Load extraction only when both relays 1 are active at terminals X2A.
- ▶ In case of failure the mains contactor with S1/K1 must disconnect from the supply system.

Instructions

Due to manufacturing tolerances of the commutation reactor the entire power can be up to less 10% at parallel operation of R6-S.