

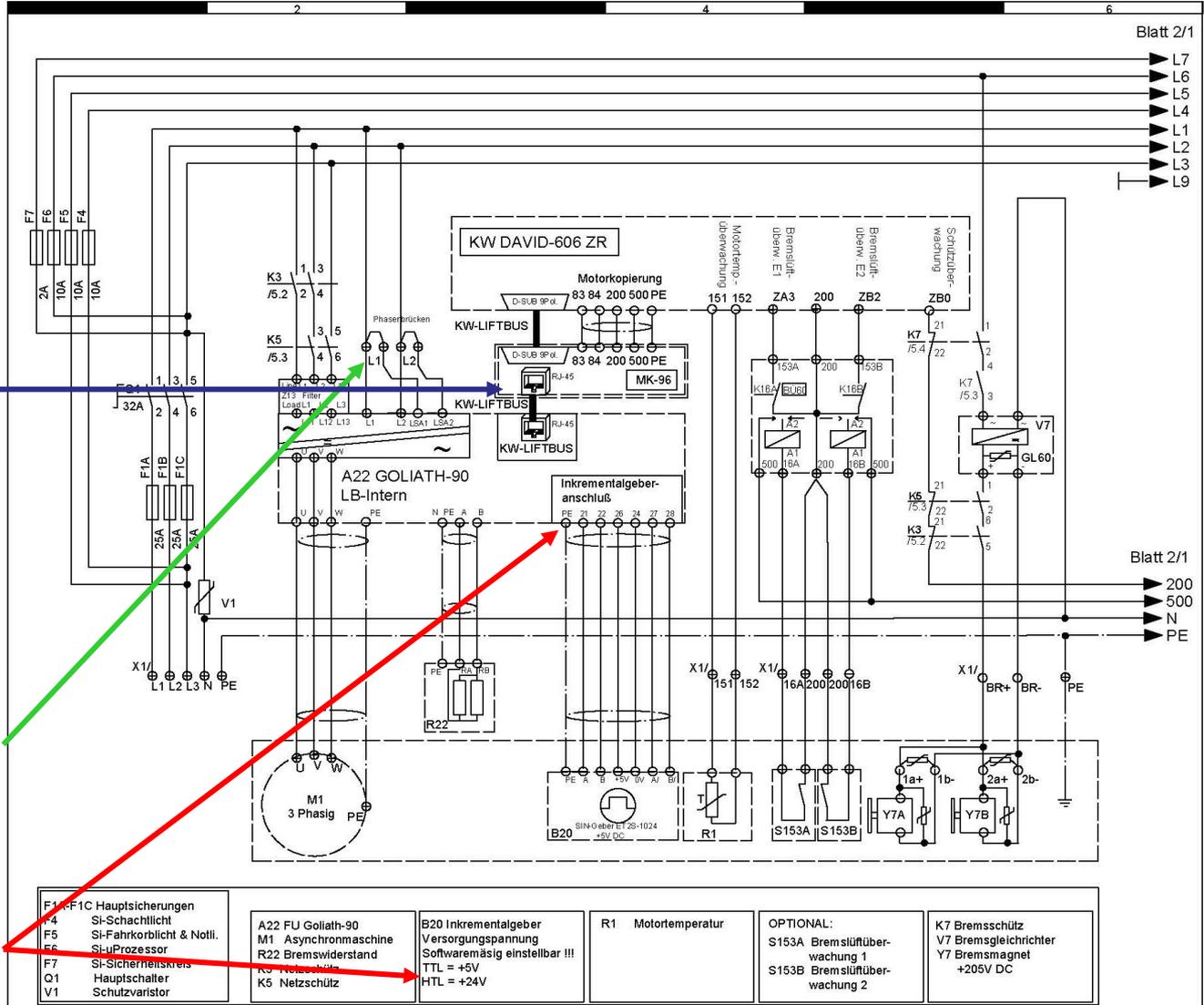
If a old and famous Goliath-60 frequency converter is replaced by a new frequency converter of the GOLIATH-90 series in a DAVID-D606 or - D2005 control system, the following must be observed:

1.) Since the GOLIATH-60 had a 9-pin D-Sub bus line, but the GOLIATH-90 has an RJ-45 bus cable connection, the **MK96 adapter** is required.

For the motor copying, the lines from the MK96 to the pulse encoder connector on the DAVID must be established.

2.) Since the GOLIATH-90 is a contactorless converter, but the G60 still has contactors, the input LSA1 - LSA2 on the G90 must be supplied with voltage. A so-called **phase bridge** is used for this.

3.) The encoder must be relaunched on the GOLIATH-90. In contrast to the G60, the G90 has an adjustable voltage supply. The **encoder type** and thus the voltage are set in the **A4 engine / gear menu**.



F1, F4, F5, F6, F7, Q1, V1	F1C Hauptsicherungen F4 Si-Schachtlicht F5 Si-Fahrkorblicht & Noll. F6 Si-uProzessor F7 Si-Sicherheitskreis Q1 Hauptschalter V1 Schutzvaristor	A22 FU Goliath-90 M1 Asynchronmaschine R22 Bremswiderstand	B20 Inkrementalgeber Versorgungsspannung Softwaremäßig einstellbar !!! TTL = +5V HTL = +24V	R1 Motortemperatur	OPTIONAL: S153A Bremsstüf- überwachung 1 S153B Bremsstüf- überwachung 2	K7 Bremserschütz V7 Bremsgleichrichter Y7 Bremsmagnet +205V DC
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ÄNDERUNG:	DATUM:	NAME:	DATUM:	NAME:	BEZEICHNUNG: Zuleitung, Motor, Bremse	DATEI: S01-80
a:		gez.			Master-Umbau G60->G90 mit MK96	STEUERUNGSNUMMER:
b:		gepr.				BLATT: Blatt 1

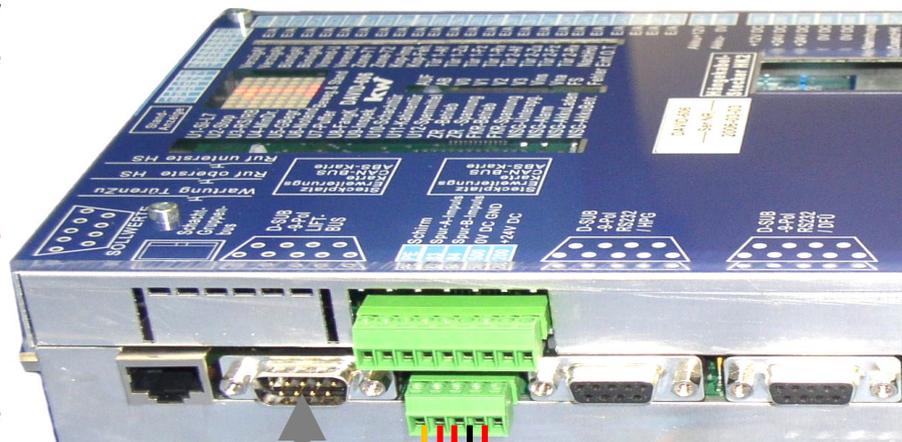


The MK96 adapter is required when a old and famous Goliath-60 frequency converter is replaced by a new frequency converter of the GOLIATH-90 series, as the frequency converter communicates with the control (DAVID-606 or -2005) via BUS.

Since the GOLIATH-60 had a **9-pin D-Sub bus cable**, but the GOLIATH-90 has an **RJ-45 bus cable** connection, you of course need an adapter!

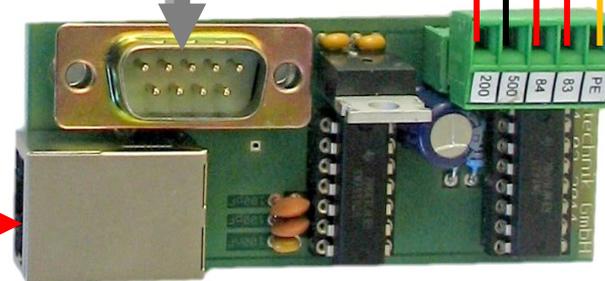
Many of the older controls operate with a **motor copy**, i.e. the impulses of the motor encoder are used for the digital copying of the control. That is why the MK96 must also provide the impulses for shaft copying. The five lines are to be established between the controller (D606, D2005) and the MK96.

DAVID-D606



D-Sub 9 pol. Liftbuscable

Motor-copy



MK96-Interface

RJ-45 Liftbuscable



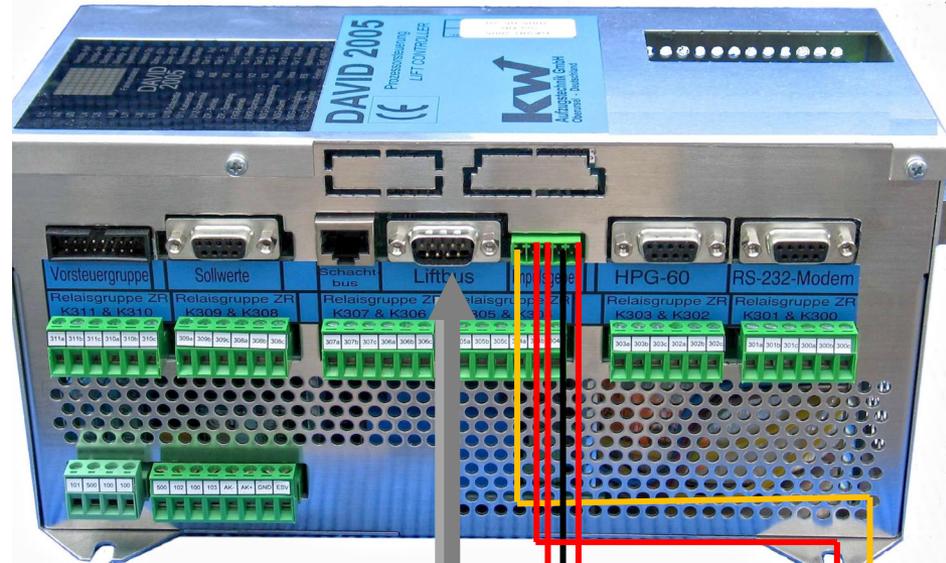
Frequencyinverter GOLIATH90

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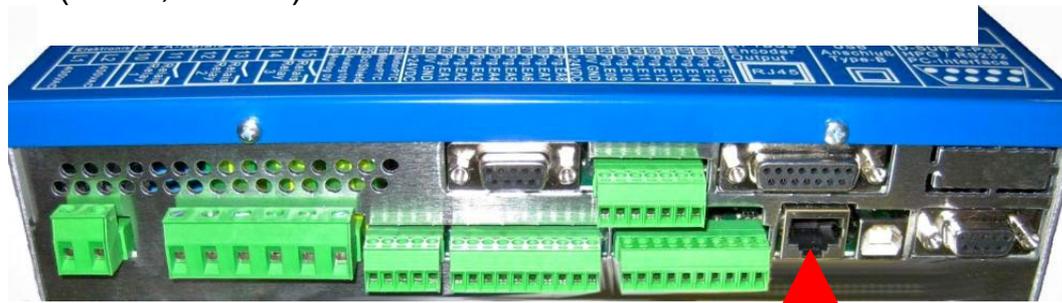
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DAVID-D2005



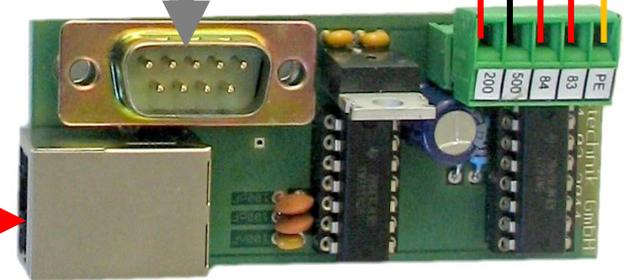
D-Sub 9 pol.
Liftbuscable

Motor-
copy



Frequencyinverter GOLIATH90

RJ-45 Liftbuscable

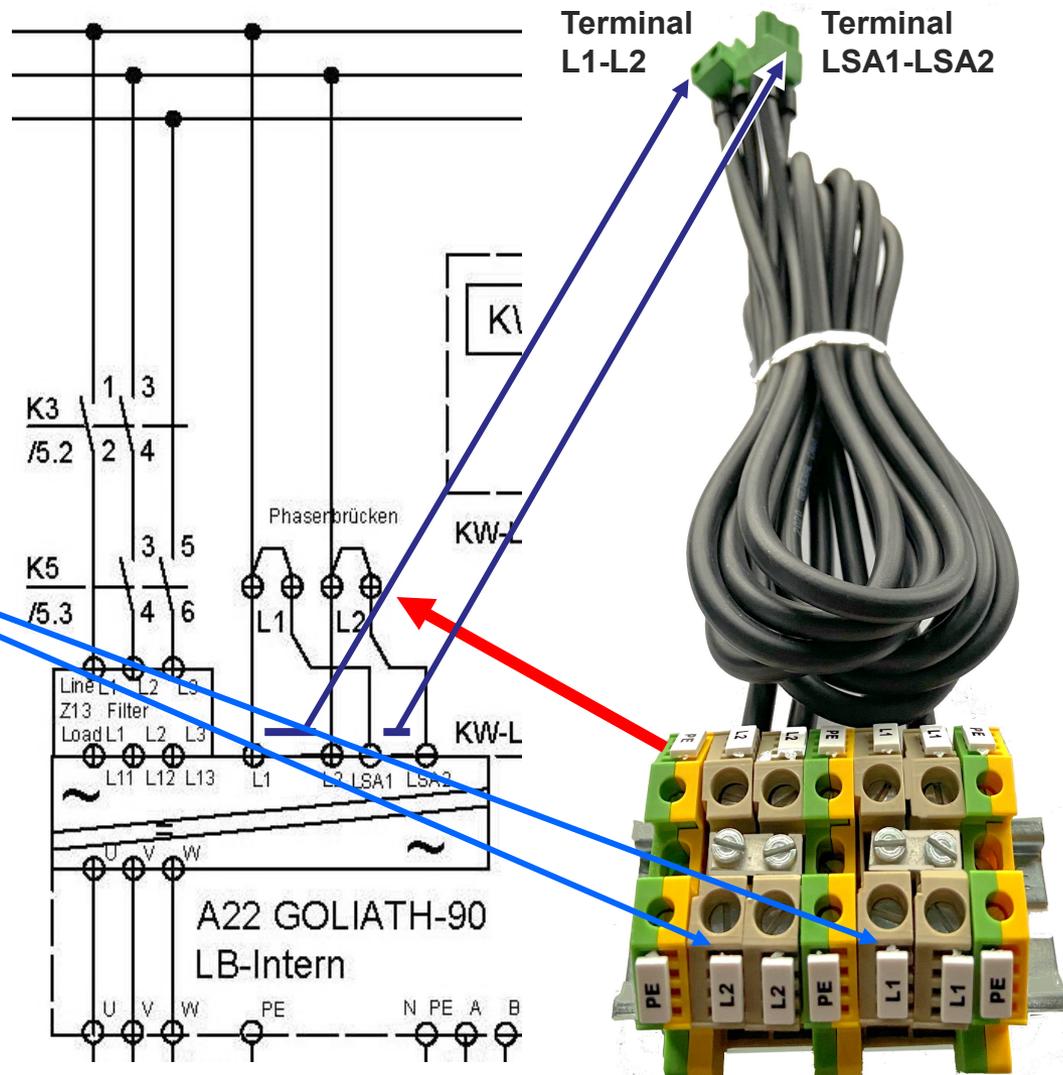


MK96-Interface

Since the GOLIATH-90 is a contactorless converter, but the GOLIATH-60 still has contactors, the input LSA1– LSA2 on the G90 must be supplied with voltage in addition to the 400V supply input L1- L2. A so-called **phase bridge** is used for this.

With the existing short-circuit-proof rubber cables, the existing green plug is disconnected and the cables are placed on one side of the terminals at L1 or L2. On the other side there are already two rubber cables with green plugs.

A green plug is connected to the previous supply input L1- L2, the other on the side of the housing, Position LSA1- LSA2!



Circuit diagram section Phase bridge 2x L1- L2