5 Technical Data

Board name		DTI (digital tachometer interface)
Order No.		6SE7090-0XX84-3DB0
Internal power supply voltage		15 V DC, 160 mA
External power supply voltage		24 V DC -16 % +25 %, 300 mA in the case of HTL encoder 24 V DC -16 % +25 %, 150 mA in the case of TTL encoder
Max. loading of encoder supply		HTL encoder: 300 mA TTL encoder: 400 mA
Input current		HTL encoder: 12 mA TTL encoder: 42 mA
Output driver current		HTL encoder: 15 mA TTL encoder: 20 mA
Digital signals, limit frequency		f_{max} 400 kHz
Operating temperature		0 °C to +55°C
Storage temperature		-25 °C to +70°C
Transport temperature		-25 °C to +70°C
Environmental class for operation - Humidity: - Pollutant exposure:	 3K3 3C2	acc. to DIN IEC 721 Part 3-3
Pollution level	2	DIN VDE 0110 Part 1 moisture condensation not permissible
Overvoltage category	II	DIN VDE 0110 Part 2
Degree of protection	IP00	DIN VDE 0470 Part 1 ≙ EN 60529
Mechanical stability		DIN IEC 68-2-6
Dimensions	[mm]	
Width	160	
Height	96	
Depth	46 / 56 [1)]	

	Frequency range	Constant amplitude of the	
		deflection	acceleration
	Hz	mm	m/s^2 (g)
- when stationary	10 to 60	0,35	
	above 60 to 500		49 (5)
- during transport	5 to 9	3,5	
	above 9 to 500		9,8 (1)

1) with 6SE7090-0XX84-3DB1

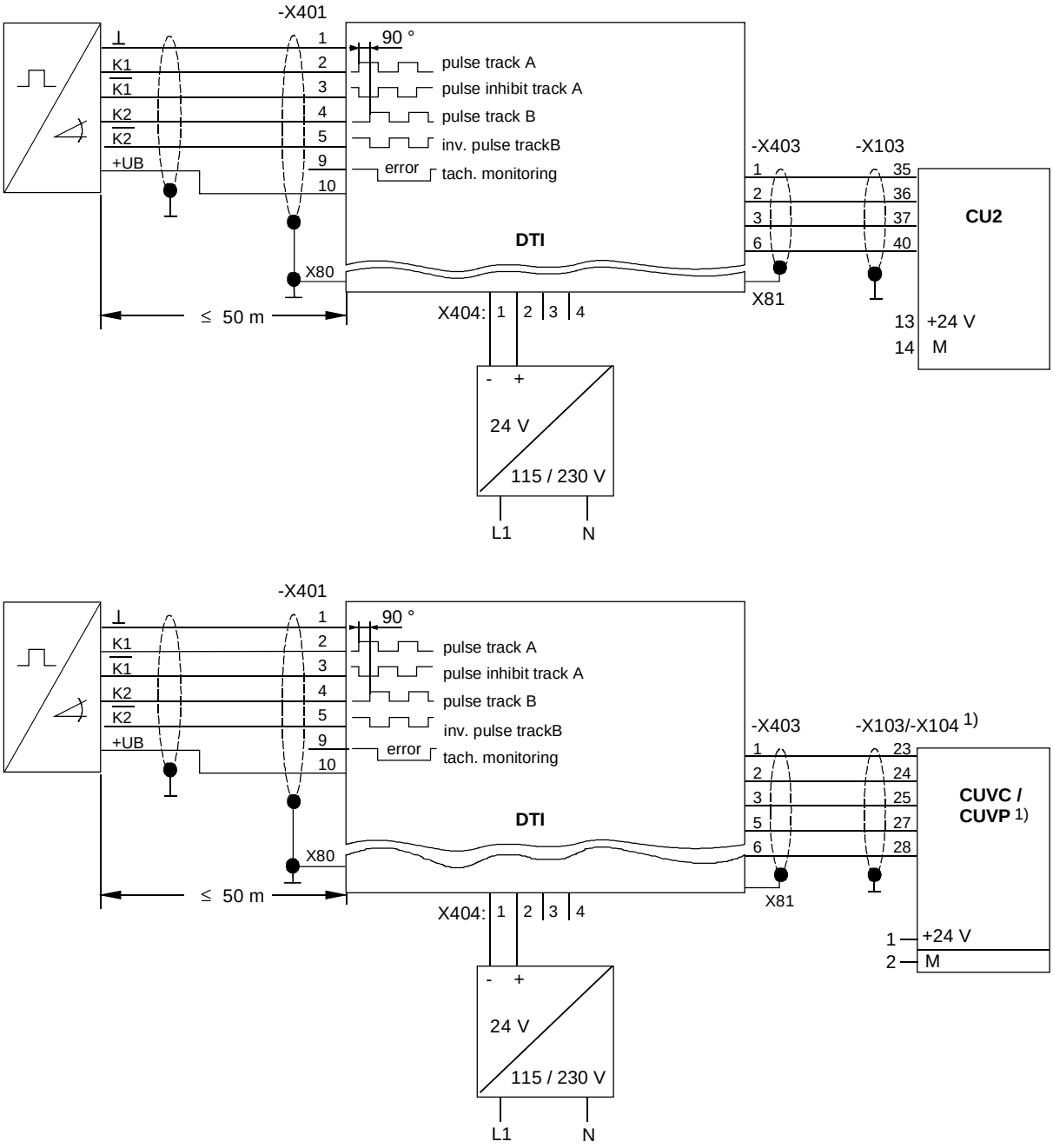


Fig. 5-1 *TTL tachometer with inverted pulse track (type H0G9, Fa. Hübner Berlin) and external power supply for SIMOVERT VC*

1) only with 6SE7090-0XX84-3DB1

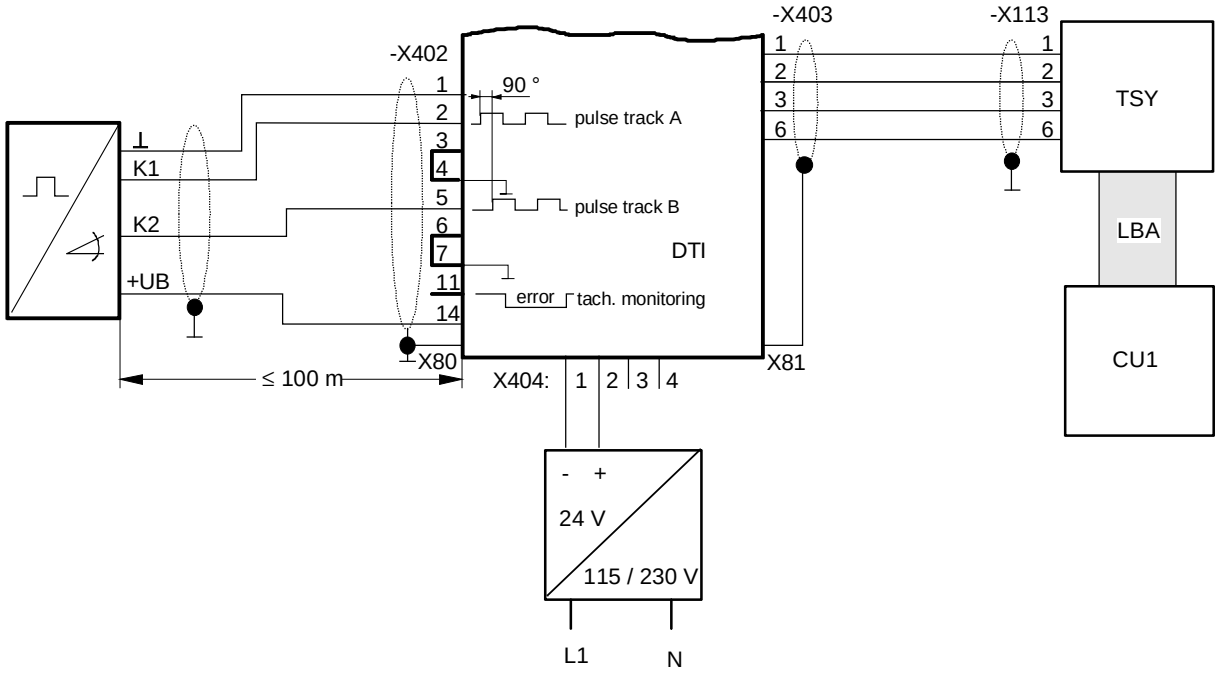


Fig. 5-2 *HTL tachometer without differential track (type H0G9, Fa. Hübner Berlin) when using the TSY board and external power supply for SIMOVERT FC*

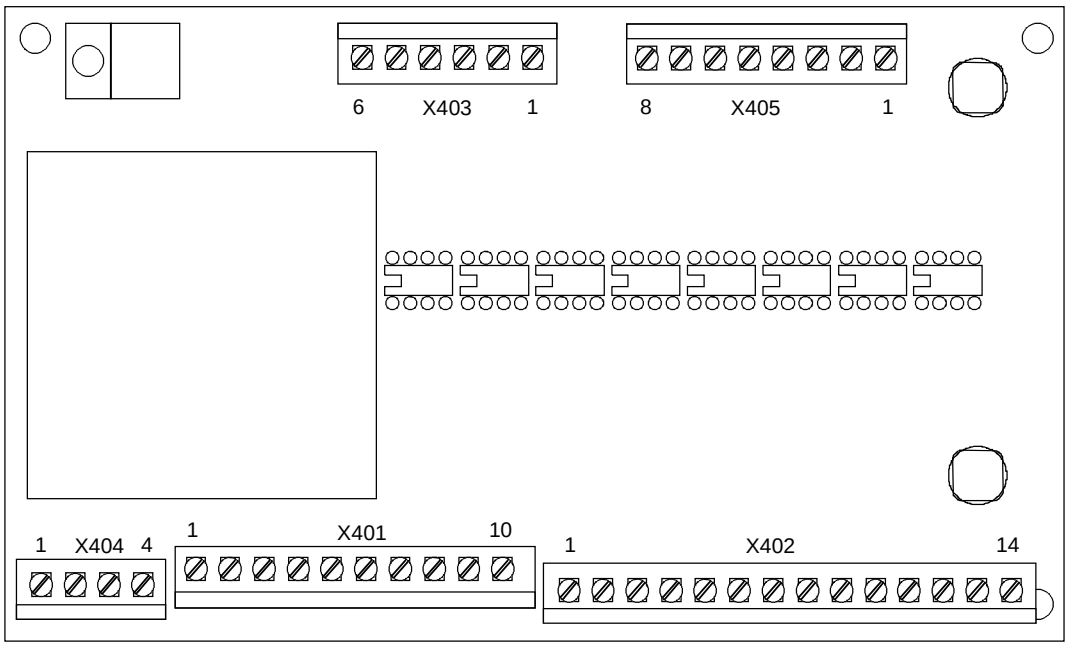


Fig. 5-3 *Terminal strip assignment on the DTI board 6SE7090-0XX84-3DB0*