

Description of the motor temperature detection

Parameter In.17 displays in high byte the installed temperature input of the drive converter. The KEB COMBIVERT F5/F6 is delivered as standard with switchable motor temperature detection. The desired function is adjusted with Pn.72 (dr33 at F6) and operates in accordance with the following table:

In.17	Function of T1, T2	Pn.72 (dr33)	Resistance	Display ru.46 (F6 => ru28)	Error/Warning ¹⁾
5xh/ Dxh	KTY84	0	< 215 Ω	Detection error 253 ³⁾	x
			498 Ω	1°C	– ²⁾
			1 kΩ	100°C	x ²⁾
			1.722 kΩ	200°C	x ²⁾
			> 1811 Ω	Detection error 254 ⁴⁾	x
	PTC (in accordance with EN 60947-8)	1	< 750 Ω	T1-T2 closed	–
			0.75...1.65 kΩ (reset resistance)	T1-T2 closed	–
			1.65...4 kΩ (tripping resistance)	T1-T2 open	x
			> 4 kΩ	T1-T2 open	x
	PT1000	2 (4)	< 215 Ω	Detection error 253 ³⁾	x
			1004 Ω	1°C	– ²⁾
			1396 Ω	100°C	x ²⁾
			1759 Ω	200°C	x ²⁾
			> 1811 Ω	Detection error 254 ⁴⁾	x
6xh/ Exh	PT100	–	<i>upon request</i>		
¹⁾	<i>The column is valid at factory setting. The function must be programmed accordingly with parameters Pn.12, Pn.13, Pn.62 and Pn.72 for F5 in operating mode GENERAL.</i>				
²⁾	<i>Disconnection is depending on the adjusted temperature in Pn.62 (F6 => pn11/14).</i>				
³⁾	<i>If the resistance is too low, "short circuit" is displayed.</i>				
⁴⁾	<i>If the resistance is too high, "no connection" is displayed.</i>				