

Description of the motor cable

Assignment of the cable

Description	Motor				Brake*		Temperature sensor	
	U	V	W	PE	+	-	T1 (+)	T2 (-)
Marking at the cable	1	2	3	green-yellow	5	6	7	8

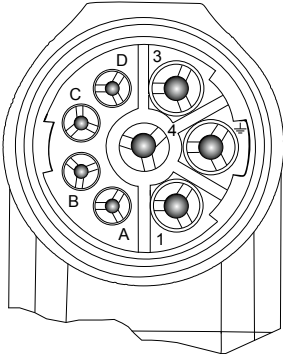

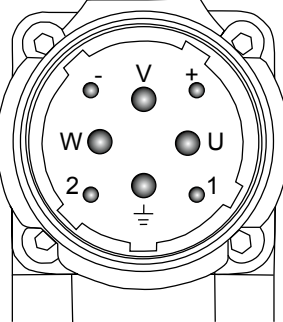

* Optional (supply via external braking power supply unit, except COMBIVERT H6)

Part number	Circular connector (motor side)	Temperature range	Use	Cable
00H6L00-xxxx	Motor cable static routing H6 Size 1	-10°C ... 80°C	Motor cable 1.5 mm ²	4x1.5+2x(2x0.75)
00H6L10-xxxx	Motor cable flexible routing H6 Size 1	-50°C ... 80°C	Motor cable 1.5 mm ²	4x1.5+2x(2x0.75)
00H6L20-xxxx	Motor cable high flexible routing H6 Size 1	-10°C ... 80°C	Motor cable 1.5 mm ²	4x1.5+2x(2x0.75)
00S4019-xxxx	Power connector 4+4 Size 1	20°C ... 80°C	Motor cable 1.5 mm ²	4x1.5+2x(2x0.75)
00S4119-xxxx	Power connector 4+4 Size 1	20°C ... 80°C	Motor cable 2.5 mm ²	4x2.5+2x(2x1)
00S4219-xxxx	Power connector 4+4 Size 1	20°C ... 80°C	Motor cable 4 mm ²	4x4+2x(2x1)
00S4319-xxxx	Power connector 4+4 Size 1.5	20°C ... 80°C	Motor cable 4 mm ²	4x4+2x(2x1)
00S4419-xxxx	Power connector 4+4 Size 1.5	20°C ... 80°C	Motor cable 10 mm ²	4x10+(2x1)+(2x1.5)
00S4519-xxxx	Power connector 4+4 Size 1 SpeedTec	-50°C ... 80°C	Motor cable 1.5 mm ²	4x1.5+2x(2x0.75)
00S4619-xxxx	Power connector 4+4 Size 1 SpeedTec	-50°C ... 80°C	Motor cable 2.5 mm ²	4x2.5+2x(2x1)
00S4719-xxxx	Power connector 4+4 Size 1.5 SpeedTec	-50°C ... 80°C	Motor cable 4 mm ²	4x4+2x(2x1)
00S4819-xxxx	Power connector 4+4 Size 1.5 SpeedTec	-50°C ... 80°C	Motor cable 6 mm ²	4x6+(2x1)+(2x1.5)
00S4919-xxxx	Power connector 4+4 Size 1.5 SpeedTec	-50°C ... 80°C	Motor cable 10 mm ²	4x10+(2x1)+(2x1.5)
00S4A19-xxxx	Power connector 4+4 Size 1.5 SpeedTec	-50°C ... 80°C	Motor cable 16 mm ²	4x16+(2x1)+(2x1.5)

Marking of the plug connection at the motor

Size	Terminal assignment		Connector motor side (H6 only)	Connector size: 1
Ax...DxSMDxx-xxxx Ax...BxSMHFx-xxxx	A	Motor phase U		
	B	Motor phase V		
	C	Motor phase W		
	⏏	Protective earth		
	1	Brake +		
	2	Brake -		
	3	Temperature sensor +		
	4	Temperature sensor -		
	5	---		

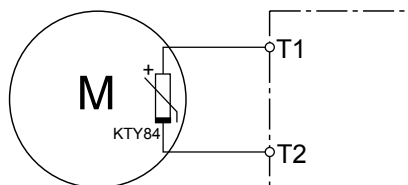
KEB Motor cable

Size	Terminal assignment		Connector motor side	Connector size: 1
Ax...DxSM5xx-xxxx Ax...ExSM0xx-xxxx 2x ...7xSM0xx-xxxx TA2x ... TA5x Cx...ExSMHFx-xxxx	1	Motor phase U		
		Protective earth		
	3	Motor phase W		
	4	Motor phase V		
	A	Brake +		
	B	Brake -		
	C	Temperature sensor +		
D	Temperature sensor -			
Size	Terminal assignment		Connector motor side	Connector size: 1.5
ExSMDxx-xxxx ExSM5xx-xxxx FxSM0xx-xxxx TA6x FxSMHFx-xxxx	U	Motor phase U		
	V	Motor phase V		
	W	Motor phase W		
		Protective earth		
	+	Brake +		
	-	Brake -		
	1	Temperature sensor +		
2	Temperature sensor -			

Current load for flexible cables at operating temperature of 70°C

Ambient temperature	up to 30°C	up to 30°C	up to 10°C	up to 20°C	up to 30°C	up to 35°C	up to 40°C	up to 45°C	up to 50°C	up to 55°C	up to 60°C	up to 65°C
Cable cross-section in mm ²	CU conductor	Pro-tection	S1 current [A]									
1.5	18	16	22	20	18	17	16	14	13	11	9	6
2.5	26	20	32	29	26	24	23	21	18	16	13	9
4	34	25	41	38	34	32	30	27	24	21	17	12
6	44	35	54	49	44	41	38	35	31	27	22	15
10	61	50	74	68	61	57	53	48	43	37	31	21
16	82	80	100	92	82	77	71	65	58	50	41	29

Connection of a KTY sensor



KTY sensors are poled semiconductor and must be operated in forward direction! Connect the anode to T1! Non-observance leads to wrong measurements in the upper temperature range. A protection of the motor winding is no longer guaranteed.



KTY sensors may not be combined with other detections. Otherwise wrong measurements would be the consequence.



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