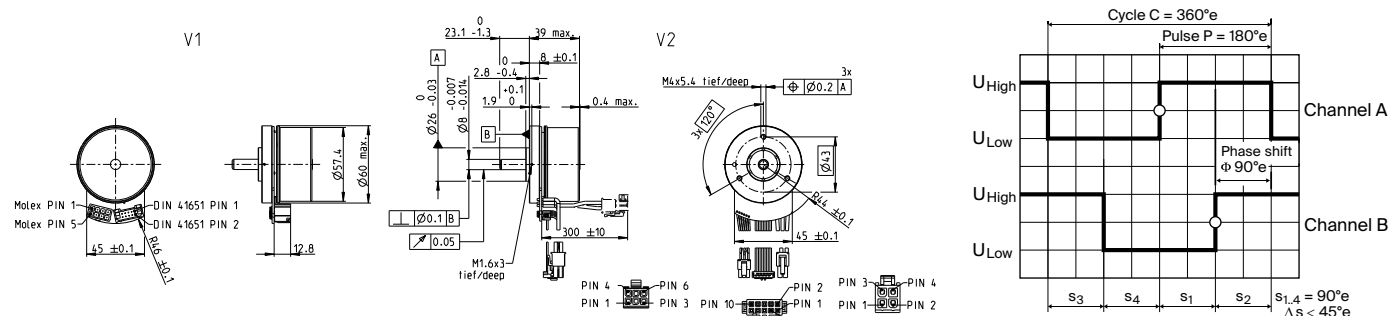


Encoder MILE 512-4096 CPT, 2 channels, with line driver

Integrated into motor



M 1:6

- Stock program
- Standard program
- Special program (on request)

V1 with connector
V2 with cable and connector

Part numbers			
651156	651163	651166	651168
421985	421986	421987	421988

Type	V2 with cable and connector	V2-500	V2-500	V2-500	V2-500
Counts per turn	512	1024	2048	4096	
Number of channels	2	2	2	2	
Max. operating frequency (kHz)	1000	1000	1000	1000	
Max. speed (rpm)	6000	6000	6000	6000	



Modular system									
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length L1 max. [mm] / • see Gearhead			
EC 60 flat, 100 W	321					39.0	39.0	39.0	39.0
EC 60 flat, 100 W	321	GP 52, 4 - 30 Nm	444			•	•	•	•
EC 60 flat, 100 W	321	GB 80	458			•	•	•	•
EC 60 flat, 150 W	322					39.0	39.0	39.0	39.0
EC 60 flat, 150 W	322	GP 52, 4 - 30 Nm	444			•	•	•	•
EC 60 flat, 150 W	322	GB 80	458			•	•	•	•
EC 60 flat, 200 W	323					46.5	46.5	46.5	46.5
EC 60 flat, 200 W	323	GP 52, 4 - 30 Nm	444			•	•	•	•
EC 60 flat, 200 W	323	GB 80	458			•	•	•	•

Technical data	Pin allocation	Connection example
Supply voltage V_{CC} 5 V $\pm 10\%$ Typical current draw 15 mA Output signal CMOS compatible Signal rise time (typically, at $C_L = 25$ pF, $R_L = 1$ k Ω , 25 °C) 100 ns Signal fall time (typically, at $C_L = 25$ pF, $R_L = 1$ k Ω , 25 °C) 100 ns Operating temperature range -40...+100 °C Moment of inertia of code wheel ≤ 13 gcm ² Output current per channel max. 4 mA Open collector output of the Hall sensors with integrated pull-up resistor 10 k Ω $\pm 20\%$ Wiring diagram for Hall sensors see p. 69	Connection V1 Motor + Sensors Pin 1 Hall sensor 1 Pin 2 Hall sensor 2 Pin 3 V_{Hall} 4.5...18 VDC Pin 4 Motor winding 3 Pin 5 Hall sensor 3 Pin 6 GND Pin 7 Motor winding 1 Pin 8 Motor winding 2 Encoder Pin 1 N.C. Pin 2 V_{CC} Pin 3 GND Pin 4 N.C. Pin 5 Channel A Pin 6 Channel A Pin 7 Channel B Pin 8 Channel B Pin 9 Do not connect Pin 10 Do not connect Pin type: 46015-0806 Molex DIN 41651/EN 60603-13	Connection V2 Sensors (AWG 28) Pin 1 Hall sensor 1 Pin 2 Hall sensor 2 Pin 3 Hall sensor 3 Pin 4 GND Pin 5 V_{Hall} 4.5...18 VDC Pin 6 N.C. Motor (AWG 18) Pin 1 Motor winding 1 Pin 2 Motor winding 2 Pin 3 Motor winding 3 Pin 4 Not connected Encoder (AWG 28) Pin 1 N.C. Pin 2 V_{CC} Pin 3 GND Pin 4 N.C. Pin 5 Channel A Pin 6 Channel A Pin 7 Channel B Pin 8 Channel B Pin 9 Do not connect Pin 10 Do not connect

