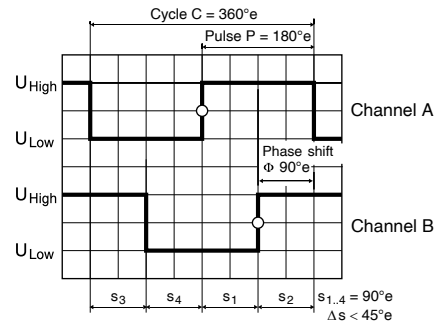
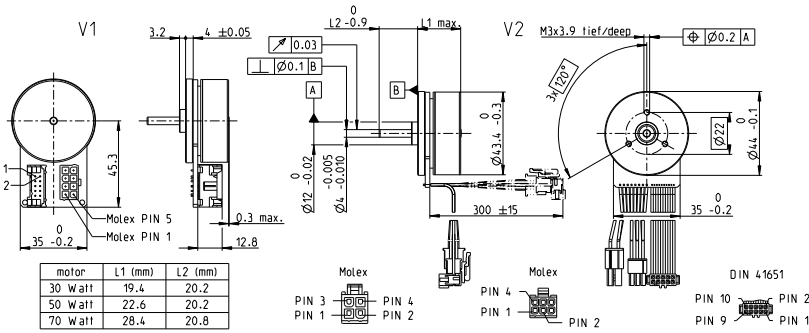


Encoder MILE 256–2048 CPT, 2 Channels, with Line Driver

Integrated into motor



Direction of rotation cw (definition cw p. 60)

M 1:4

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

Article Numbers

	462002	462003	462004	462005
V1 with connector				
V2 with cable and connector	613318	613319	613320	613321

Type

Counts per turn	256	512	1024	2048
Number of channels	2	2	2	2
Max. operating frequency (kHz)	1000	1000	1000	1000
Max. speed (rpm)	10000	10000	10000	10000



maxon Modular System

+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / ● see Gearhead			
EC 45 flat, 30 W, A	265					19.4	19.4	19.4	19.4
EC 45 flat, 30 W, A	265	GP 42, 3 - 15 Nm	356			●	●	●	●
EC 45 flat, 30 W, A	265	GS 45, 0.5 - 2.0 Nm	358			●	●	●	●
EC 45 flat, 50 W, A	266					22.6	22.6	22.6	22.6
EC 45 flat, 50 W, A	266	GP 42, 3 - 15 Nm	356			●	●	●	●
EC 45 flat, 50 W, A	266	GS 45, 0.5 - 2.0 Nm	358			●	●	●	●
EC 45 flat, 70 W, A	267					28.4	28.4	28.4	28.4
EC 45 flat, 70 W, A	267	GP 42, 3 - 15 Nm	356			●	●	●	●
EC 45 flat, 70 W, A	267	GS 45, 0.5 - 2.0 Nm	358			●	●	●	●

Technical Data

Supply voltage V_{CC}	$5 B \pm 10\%$
Typical current draw	15 mA
Output signal	CMOS compatible
State length $s_n 90^\circ e$ (1000 rpm)	$45 \dots 135^\circ e$
Signal rise time (typically, at $C_L = 25 \text{ pF}$, $R_L = 1 \text{ k}\Omega$, $25^\circ C$)	100 ns
Signal fall time (typically, at $C_L = 25 \text{ pF}$, $R_L = 1 \text{ k}\Omega$, $25^\circ C$)	100 ns
Operating temperature range	$-40 \dots +100^\circ C$
Moment of inertia of code wheel	$\leq 3.5 \text{ gcm}^2$
Output current per channel	max. 4 mA
Open collector output of the Hall sensors with integrated pull-up resistor	$10 \text{ k}\Omega \pm 20\%$
Wiring diagram for Hall sensors see p. 43	

Pin Allocation

Connection V1	Connection V2
Motor + Sensors	Sensors (AWG24)
Pin 1 Hall sensor 1*	Pin 1 Hall sensor 1*
Pin 2 Hall sensor 2*	Pin 2 Hall sensor 2*
Pin 3 V_{Hall} 4.5...18 VDC	Pin 3 Hall sensor 3*
Pin 4 Motor winding 3	Pin 4 GND
Pin 5 Hall sensor 3*	Pin 5 V_{Hall} 4.5...18 VDC
Pin 6 GND	Pin 6 NTC**
Pin 7 Motor winding 1	Motor (AWG 24)
Pin 8 Motor winding 2	Pin 1 Motor winding 1
	Pin 2 Motor winding 2
	Pin 3 Motor winding 3
	Pin 4 Not connected
Encoder	Encoder (AWG 28)
Pin 1 N.C.	Pin 1 N.C.
Pin 2 V_{CC}	Pin 2 V_{CC}
Pin 3 GND	Pin 3 GND
Pin 4 N.C.	Pin 4 N.C.
Pin 5 Channel A	Pin 5 Channel A
Pin 6 Channel A	Pin 6 Channel A
Pin 7 Channel B	Pin 7 Channel B
Pin 8 Channel B	Pin 8 Channel B
Pin 9 Do not connect	Pin 9 Do not connect
Pin 10 Do not connect	Pin 10 Do not connect
Pin type:	
39-28-1083 Molex	43025-600 Molex
DIN 41651/EN 60603-13	39-01-2040 Molex
	DIN 41651/EN 60603-13

Pin Allocation

