

Stepper Motors

Two phases, 24 steps per revolution

For combination with:

Gearheads: 15A, 15/5, 15/8, 16A, 16/7

Encoders: AE 23B8

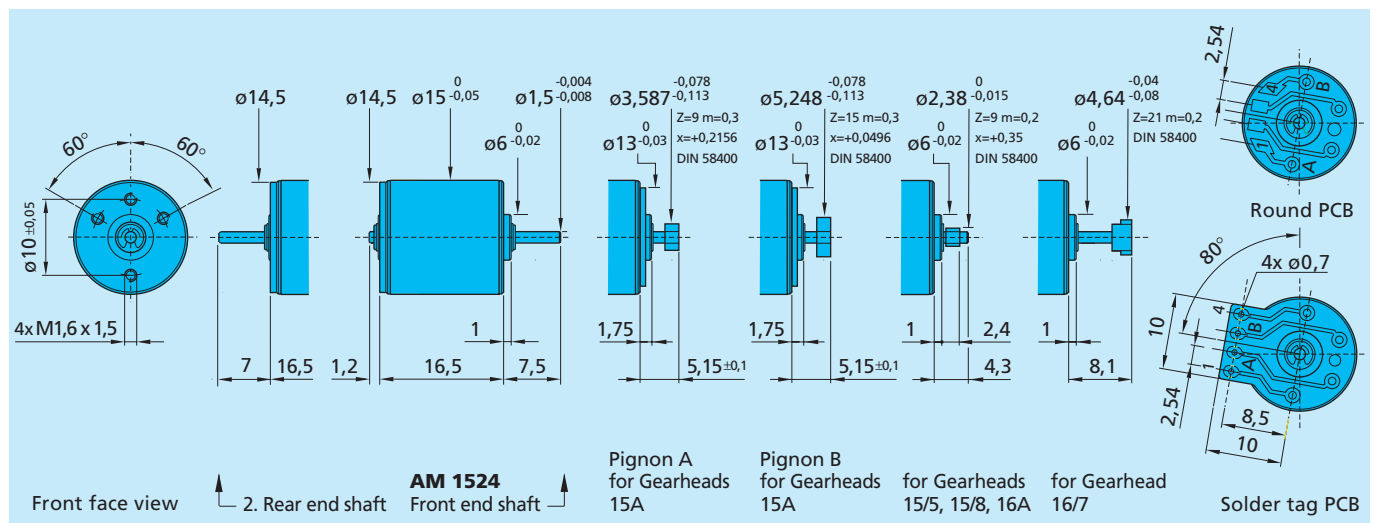
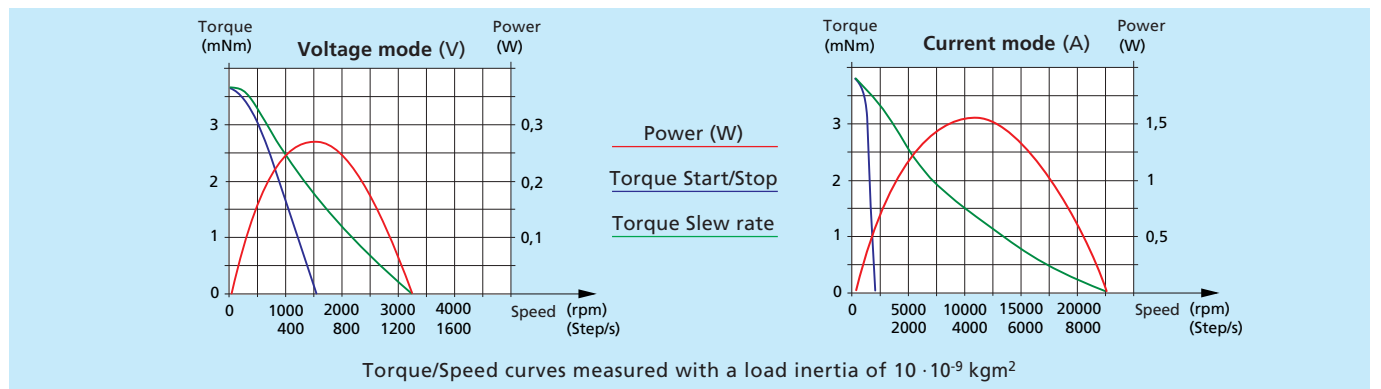
Drive Electronics: AD VL M, AD VM M, AD CM M

Series AM 1524

	Voltage mode				Current mode	
	V 3	V 6	V 12	V 24	A 0,25	
1 Nominal voltage U_n	3	6	12	24		V DC
2 Phase resistance (at 20°C)	10	35	150	590	12,5	Ω
3 Phase inductance (1kHz)	4,25	15	65	239	5,5	mH
4 Nominal current per phase (both phases ON)	0,28	0,15	0,075	0,037	0,25	A
5 Back-EMF amplitude	3,1	6	12	24	3,5	V/k step/s
6 Holding torque ¹⁾ (at nominal current in both phases)	6					mNm
7 Holding torque ¹⁾ (at twice the nominal current)	10					mNm
8 Detent torque ¹⁾	0,9					mNm
9 Thermal resistance winding-ambient air	37					K/W
10 Winding temperature tolerated, max.	130					°C
11 Ambient temperature range	-40 ... +70					°C
12 Thermal time constant	220					s
13 Step angle (full step)	15					degree
14 Angular accuracy ²⁾	± 5					% of full step
15 Rotor inertia	45					$\cdot 10^{-9}$ kgm ²
16 Shaft bearings	sintered bronze sleeves (standard)		ball bearings, preloaded (optional)			
17 Shaft load, max.:						
- radial (3 mm from bearing)	0,5		6,0			N
- axial	0,5		3,0			N
18 Shaft play, max.:						
- radial (0,2N)	15		12			μ m
- axial (0,2N)	150		-0			μ m
19 Weight	12					g
20 Test voltage (1 min.)	500					Vrms
21 Resonance frequency	120					Hz
22 Electrical time constant	0,4					ms

¹⁾ with bipolar driver

²⁾ 2 phases ON, balanced phase current



For notes on technical data refer to „Technical Information“

Specifications subject to change without notice