

Stepper Motors

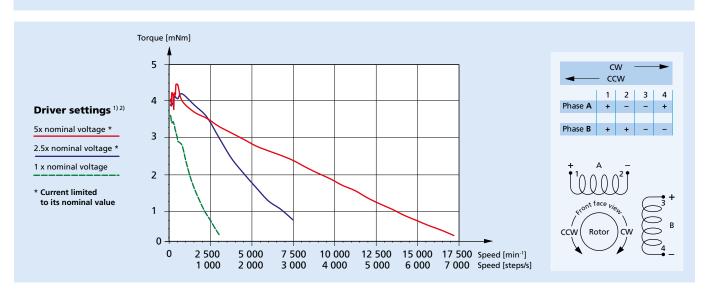
6,0 mNm

Two phase, 24 steps per revolution PRECIstep® Technology

AM1524-ww-ee

		ww =	A-0,4	5-3,6	A-0,2	5-12,5	V-6	-35	V-12	2-150	
			Current	Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Drive mode
1	Nominal current per phase (both phases O	N) ¹⁾	0,45	-	0,25	-	0,15	-	0,075	-	Α
2	Nominal voltage per phase (both phases O	N) ¹⁾	_	2	-	3,5	-	6	_	12	V DC
3	Phase resistance (at 20°C)			.6		2,5		5		38	Ω
4	Phase inductance (1kHz)			,9		,3		5,5),6	mH
5	Back-EMF amplitude		2	,4	4	,4	7	,2	14	1,7	V/k step/s
	Holding torque (at nominal current in both		6,0								mNm
7	Holding torque (at twice the nominal curre	ent)	10								mNm
			45								
			15								degree
	Angular accuracy 1)		± 10								% of full step
	Residual torque, max.		0,9								mNm
11	***************************************		45								·10 ⁻⁹ kgm ²
	Resonance frequency (at no load)		120								Hz
13	Electrical time constant		0,5								ms
4.4	Anchine the second sections are sec		−35 +7	^							0.5
14	Ambient temperature range		-35 +/	U							°C
	Winding temperature tolerated, max. Thermal resistance	Rth1 / Rth2	12,9 / 31,	c							~
17		Tw1 / Tw2	6/350	U							°C/W
17	Thermal time constant	twi/ tw2	0/330								S
10	Shaft bearings		sintered	cloovo bo	arings		hall hoa	rings, pre	Joadod		
10	Shart bearings		(standard		aririys		(optiona		loaueu		
10	Shaft load, max.:		(Stariuar)	<i>1)</i>			(option	a1 <i>)</i>			
13	- radial (3 mm from bearing)		0,5				6,0				N
	– axial		0,5				2,0				N
	- axiai		0,5				2,0				IV
20	Shaft play, max.:										
_0	– radial (0,2N)		15				12				μm
	– axial (0,2N)		150				~0				μm
	www. (0/211/										p1
21	Mass		12								q
											19

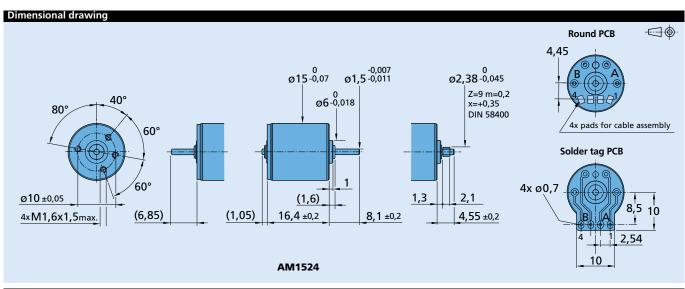
for the other curves.



¹⁾ Relevant for 2 phases ON only. On PWM drivers or chopper (current mode), the current is set to the nominal value and the supply voltage is typically 3 to 5x higher than the nominal voltage.

2) Curves measured with a load inertia of 50 ·10·9 kgm², in half-step mode for the "1 x nominal voltage" curve, in 1/4 micro-stepping mode





Combinations

Drive Electronics	Encoders	Cables	Gearheads / Lead screws		
MCST3601	Available on request	List available on request	15A		
			15/5(S)		
			15/8*		
			15/10		
			16/7		
			17/1		
			Lead screws M2 - M3		

* Zero Backlash Gearheads

Ordering information

