

Stepper Motors

307 mNm

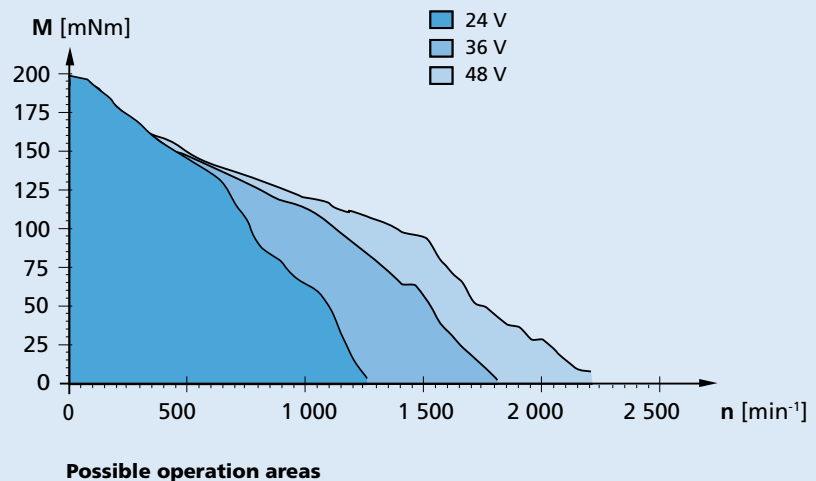
Two phase, 200 steps per revolution

Series DM66200H

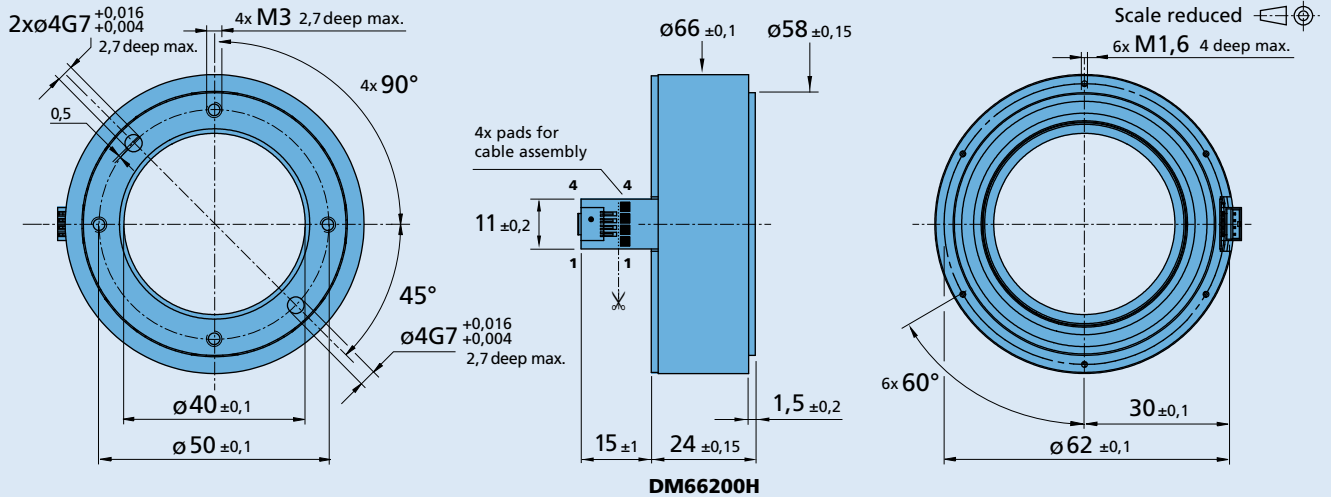
Values at 20°C	DM66200H	1000	
Nominal current per phase (both phases ON)		1	A
Boosted current per phase (both phases ON)		2	A
Phase resistance		3,8	Ω
Phase inductance (1 kHz)		2,3	mH
Holding torque (at nominal current in both phases)		307	mNm
Holding torque at boosted current		581	mNm
Residual torque, typ.		10	mNm
Back-EMF amplitude		4,4	V/k step/s
Electrical time constant	0,6		ms
Rotor inertia	$363 \cdot 10^{-7}$		kgm ²
Step angle (full step)	1,8		°
Angular accuracy	±5		%
Angular acceleration, max.	$16 \cdot 10^3$		rad/s ²
Resonance frequency (at no load)	15		Hz
Thermal resistance	1,4 / 6,9		K/W
Thermal time constant	16 / 1 000		s
Operating temperature range	-30 ... +70		°C
Winding temperature, max.	+130		°C
Shaft bearings	one ball bearings, preloaded (Bearing code: 1R)		
Shaft load max.:			
– radial at 2 000 min ⁻¹ (mm from bearing)	300		N
– axial at 2 000 min ⁻¹	100		N
– axial at standstill	700		N
Shaft play:			
– radial	0,015		mm
– axial	0		mm
Housing material	aluminium, black anodized		
Mass	218		g
Magnet material	NdFeB		

Driver settings

Curve measured with a load inertia of $396 \cdot 10^{-7}$ kgm² on the DM66200H motor using a ISCM8005 controller in sin/cos control mode, 256 micro-steps per full step and a peak phase current of 1,41A.



Dimensional drawing



Options and connection information

Example product designation: **DM66200H1R100001**

Motor executions	Description	Connection
01	Motor with standard flexboard	No. Function
02	Motor with 160 mm cables	1 Phase A +
11	Motor with standard flexboard and mounting flange	2 Phase A -
12	Motor with 160 mm cables and mounting flange	3 Phase B +
		4 Phase B -
		Standard cable
		Flex PCB bending radius min. 3mm
		Molex 874380443
		Recommended connector
		Molex 87439-0400 or similar.

Product combination

Precision Gearheads / Lead Screws	Encoders	Drive Electronics	Cables / Accessories
		MC 3602 B MCST 3601	