

**NEW**

# Stepper Motors

307 mNm

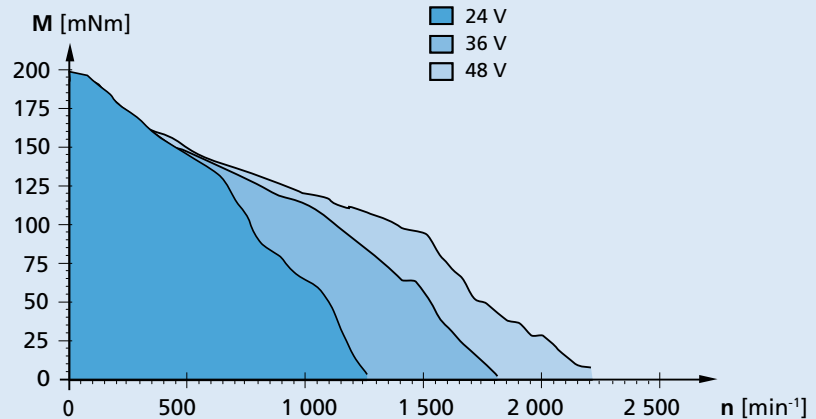
Two phase, 200 steps per revolution

## 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 <sup>2</sup>
Step angle (full step)	1,8		°
Angular accuracy	±5		%
Angular acceleration, max.	$16 \cdot 10^3$		rad/s <sup>2</sup>
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 bearing, preloaded (Bearing code: 1R)		
Shaft load max.:			
– radial at 2 000 min <sup>-1</sup>	300		N
– axial at 2 000 min <sup>-1</sup>	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		

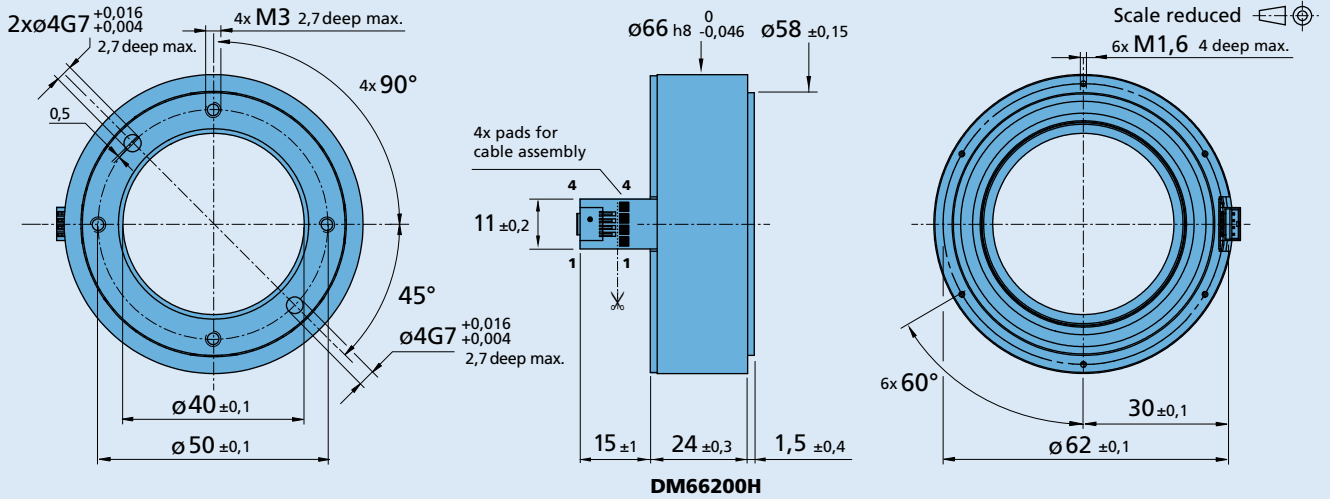
### Driver settings

Curve measured with a load inertia of  $396 \cdot 10^{-7}$  kgm<sup>2</sup> 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.



Possible operation areas

### Dimensional drawing



### Options and connection information

Example product designation: **DM66200H1R100001**

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

### Product combination

Precision Gearheads / Lead Screws	Encoders	Drive Electronics	Cables / Accessories
		MCST 3601	To view our large range of accessory parts, please refer to the "Accessories" chapter.