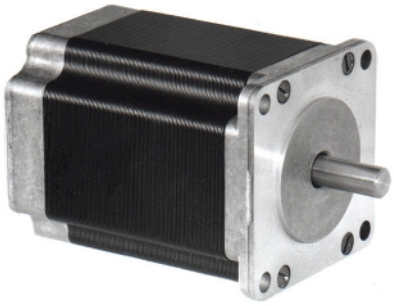
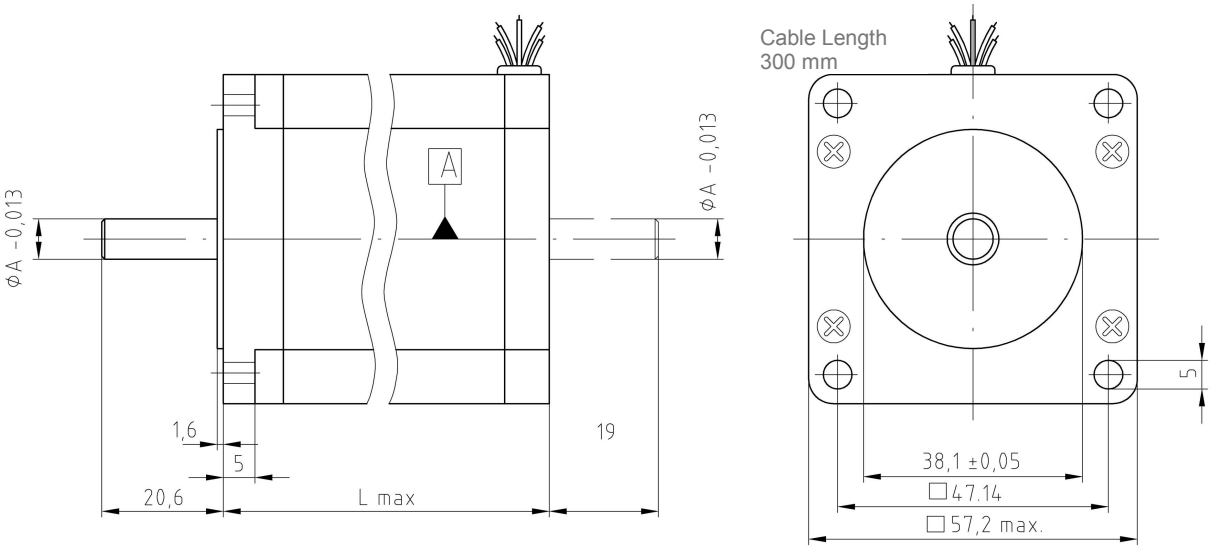
High Performance Stepper Motors
HS200 Series

The motors of the HS series distinguish by unique characteristics of mechanical structure and magnetic design.

- 2-phase Hybrid Step Motor in Frame Size NEMA 23
- Holding Torque from 0,4 up to 1,6 Nm
- Peak Torque up to 2,8 Nm
- Full Step Angle 1,8°
- Direct Heat Dissipation from the Lamination
- Noise and Vibration optimized Shape of Lamination
- Linear Torque of up to 2,5 times of the rated Current for short Acceleration/Deceleration Periods



Dimensions



all dimensions in mm

	Lengths (Lmax)	Shaft (∅A)
HS200-2216	41 mm	6,35 mm
HS200-2221	55 mm	6,35 mm
HS200-2231	77 mm	8 mm

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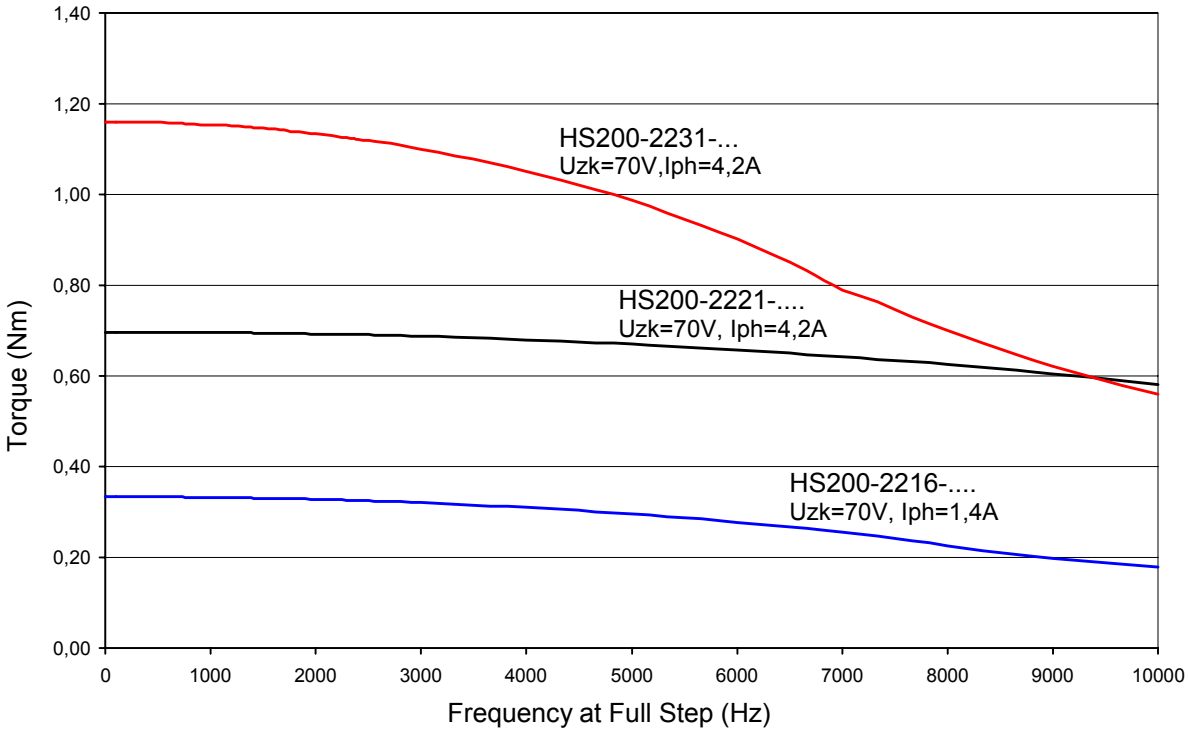
Torque Characteristics
(Connection bipolar, parallel)



Technical Data (Standard Types)

			HS200-2231-0300AX08	HS200-2221-0300AX08	HS200-2216-0100AX08
Holding Torque (bipolar, 2 phases parallel connected)	M_H	Nm	0,47	0,98	1,63
Rated Current Phase (bipolar parallel)	I	A	1,4	4,2	4,2
Rated Current Phase (bipolar serial)	I	A	0,7	0,7	2,1
Step Angle		°	1,8	1,8	1,8
Angular Tolerance		%	5	5	5
Resistance per Phase	R_{ph}	Ω	4,6	6,2	1,1
Inductance per Phase	L_{ph}	mH	4,6	8,8	1,7
Residual Torque	M_P	Nm	0,02	0,04	0,07
Insulation Class			B	B	B
Rotor Inertia	J	$Kgm^{2x}10^{-3}$	0,008	0,022	0,034
Mass	m	kg	0,5	0,7	1,0

Standard Version: NEMA 23, smooth shaft
8 flying leads for serial or parallel connection

Further types and options for those series as well as stepper drives and other accessories are available upon request.

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