



High Performance Stepper Motors L3 Series

- 2-phase Hybrid Step Motor in Frame Size NEMA 23
- Holding Torque from 0,4 up to 1,6 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

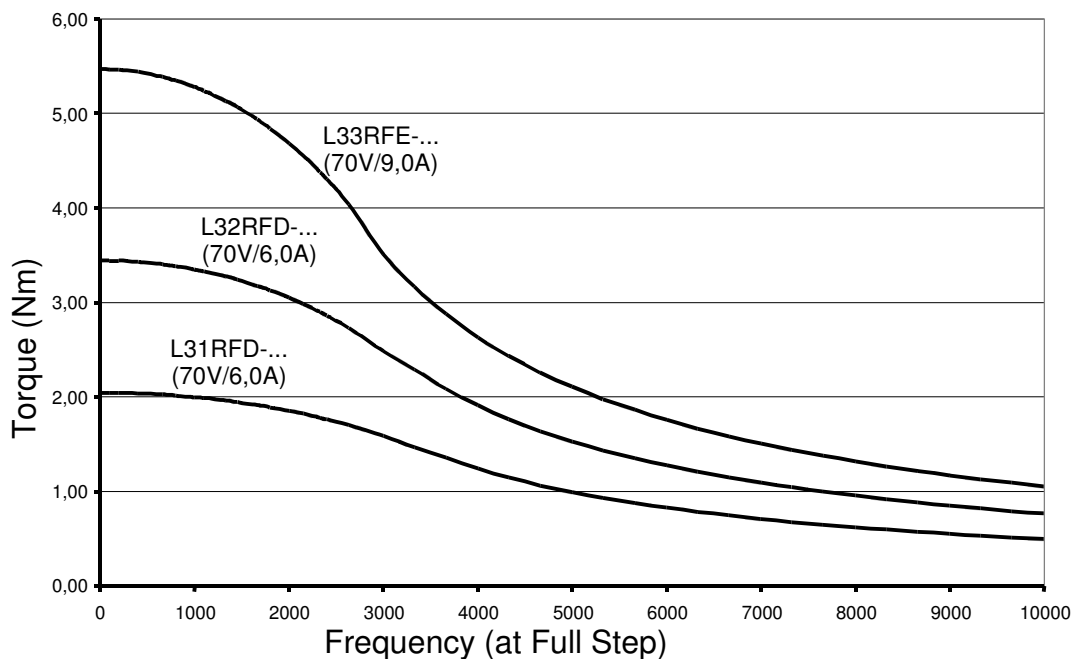
Technical Data (Standard Types)

		L33RFE-00N-NN-00			
		L32RFD-00N-NN-00			
		L31RFD-00N-NN-00			
Holding Torque (bipolar, 2 phases parallel connected)	M_H	Nm	2,8	4,8	7,6
Rated Current per Phase (bipolar parallel)	I	A	6,0	6,0	9,0
Rated Current per Phase (bipolar serial)	I	A	3,0	3,0	4,5
Step Angle		°	1,8	1,8	1,8
Angular Tolerance		%	5	5	5
Resistance per Phase	R_{ph}	Ω	0,3	0,75	0,5
Inductance per Phase	L_{ph}	mH	2,1	3,5	2,5
Residual Torque	M_P	Nm	0,09	0,13	0,23
Insulation Class			B	B	B
Rotor Inertia	J	$Kgm^{2x10^{-3}}$	0,066	0,12	0,18
Mass	m	kg	1,6	2,4	3,6
Length	L	mm	67	94	125

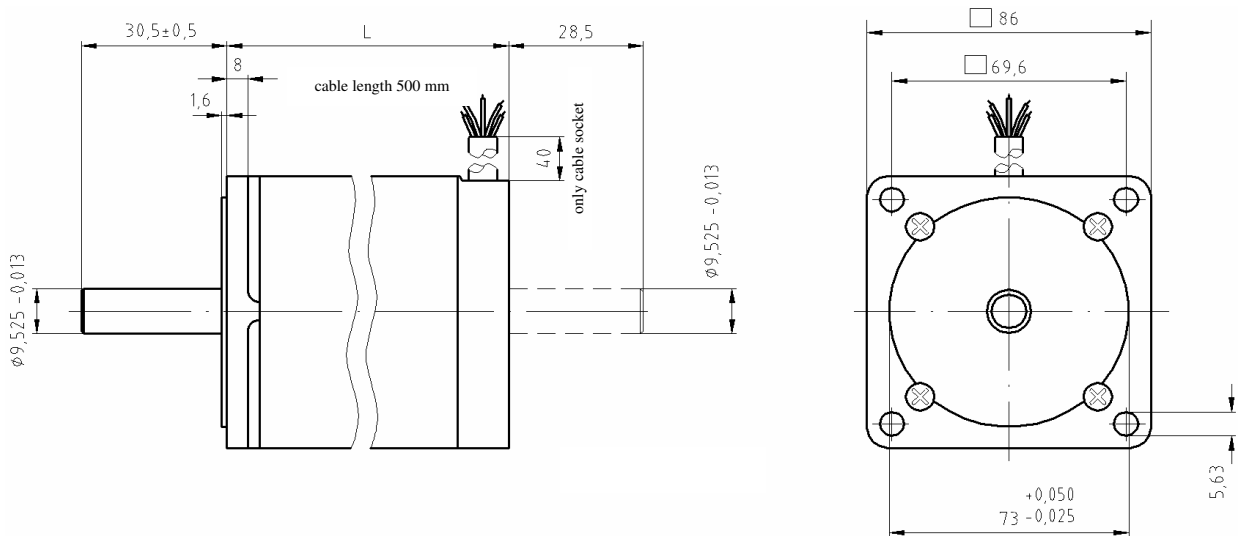
Standard Version: NEMA 34, smooth shaft \varnothing 9,52 mm
8 flying leads for serial or parallel connection

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

Torque Characteristics (Connection bipolar, parallel)



Dimensions



all dimensions in mm

	Length
L31RFD-00N-NN-00	67 mm
L32RFD-00N-NN-00	94 mm
L33RFE-00N-NN-00	125 mm

subject to change without notice

CONTACTS

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