

Datasheet for Linear Stepper Motor - Actuator 87ST-B012-02540-C0508

Version	ST	-
Screw Diameter	15,88	mm
Step Angle	1,8	Deg.
Steps per Revolution	200	-
Screw lead	0,0005	inch/step
Screw lead	0,0127	mm/step
Screw lead	2,540	mm / Rot.
code	3	-
Linear Motor Force 1	2600	N
Linear Speed 1 (Low Speed)	2	mm/s
Linear Motor Force 2	1500	N
Linear Speed 2	8	mm/s
Linear Motor Force 3	200	N
Linear Speed 3 (Max speed)	11	mm/s
Recommend. Load Limit	2200	N
Back Drive Force	890	N

Wiring	Bipolar	
Winding Voltage	12	VDC
Current	1300	mA
Resistance/Phase	9,23	Ohm
Inductance/Phase	51	mH
Power Consumption	31,2	W
Inertia	1760	g.cm ²
Temperature Rise	75	Celsia
Weight	958	g
Insulation Resistance	20	MOhm

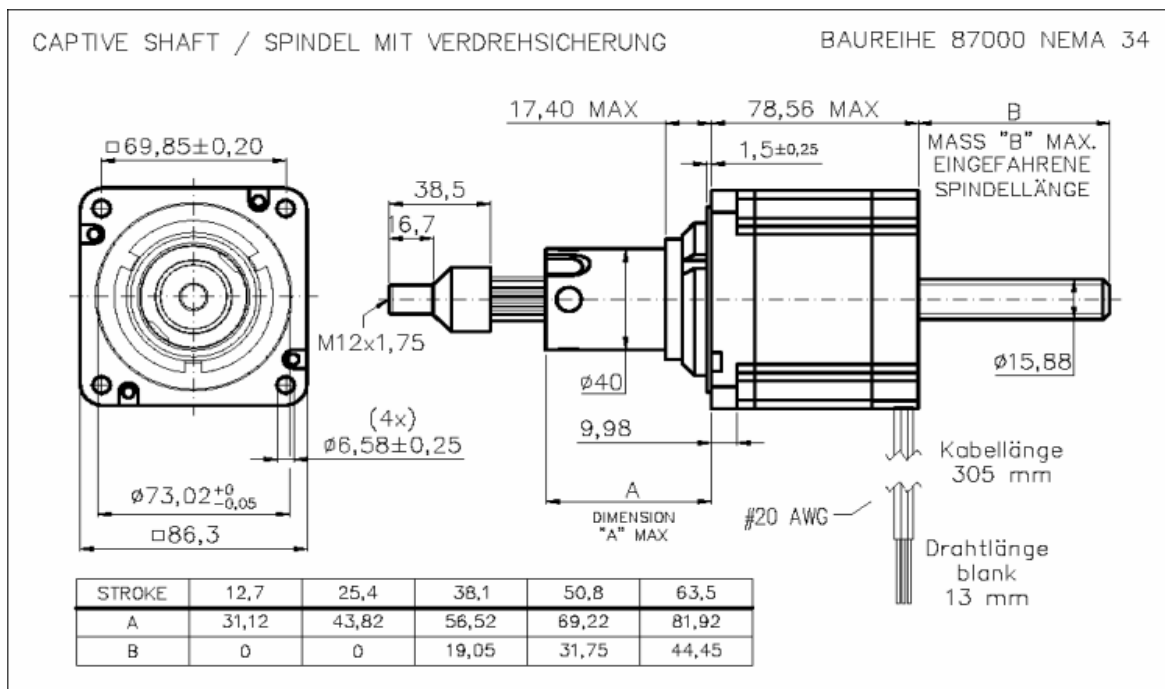
Max Linear Force Linear Stepper Motor can get is 2600 N. Linear Motor give here very low Speed only :2mm/s.

Middle Range Force is 1500N at Linear Speed 8mm/s.

Max Linear Speed this Lead Screw and Stepper Motor can give is 11mm/s with Force only 200N.

Stepper Driver should give current 1300mA. For High Speed Application would be best 8x Winding Voltage eg: 96VDC.

Linear Stepper Motor – Actuator – Dimensional Drawing



Max Linear Force Linear Stepper Motor can get is 2600 N. Linear Motor give here very low Speed only :2mm/s.

Middle Range Force is 1500N at Linear Speed 8mm/s.

Max Linear Speed this Lead Screw and Stepper Motor can give is 11mm/s with Force only 200N.

Please find more Linear Stepper Motors Catalogs and Datasheets on web : [click here](#).