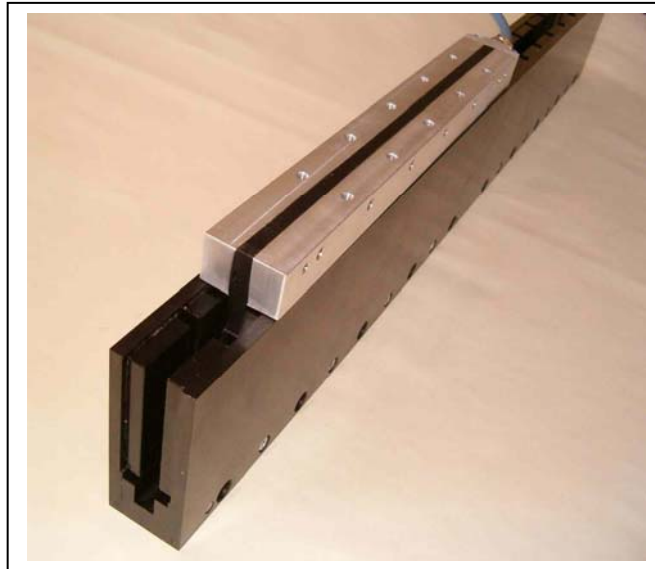




LINEAR SYNCHRONOUS MOTOR TYPE CLM 34 - 112 - 125

The motor has two parts. One moving part is the three-phase windings without iron. The second part is a balanced dual-sided "U" shaped magnet channel. There is no cogging. This allows achieving the highest levels of positioning accuracy, repeatability and resolution. The back EMF is sinusoidal.



• Continuous force F_n [N]	125
• Peak force F_p [N]	600
• Continuous power dissipation P_j [W]	100
• Motor constant K_m [N/W]	12,5
• Force constant K_f [N/A]	73,2
• Back EMF constant per line K_u [Vrms/(m/s)]	42
• Electrical resistance (line to line) at 20°C R [Ω]	15,5
• Electrical inductance (line to line) L [mH]	19
• Continuous current I_n [Arms]	1,76
• Peak current I_p [Arms]	9
• Insulation class	F
• Weight of the coil assembly [kg]	0,8
• Weight of the magnet assembly [kg/m]	16,5
• Travel [mm]	300
• Natural cooling	
• Maximum humidity	20 - 80%
• Ambient temperature	0 - 40 °C
• Two pole pitch	60 mm

