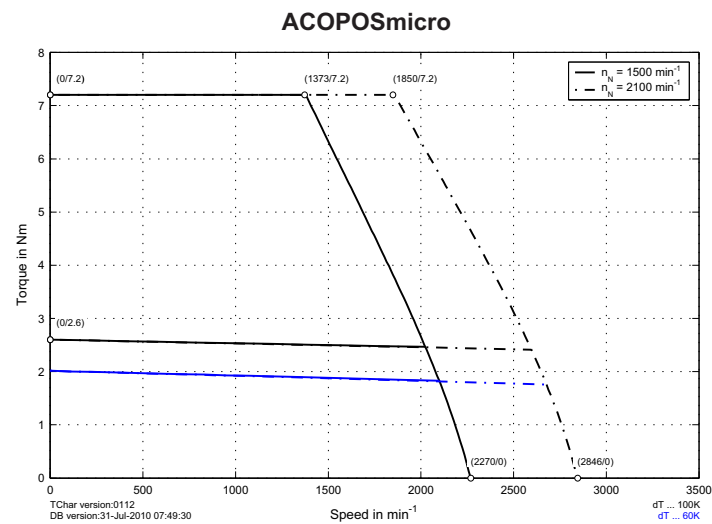


Technical data

	8LVA33.ee021ffgg-0	8LVA33.ee015ffgg-0
Motor		
Rated speed n_N [min ⁻¹]	2100	1500
Number of poles	8	
Rated torque M_n [Nm]	2.45	2.5
Rated power P_N [W]	539	393
Rated current I_N [A]	7.3	6
Stall torque M_0 [Nm]	2.6	
Stall current I_0 [A]	7.9	6.3
Maximum torque M_{max} [Nm]	7.2	
Maximum current I_{max} [A]	26	20.4
Maximum angular acceleration a [rad/s ²]	75789	
Maximum speed n_{max} [min ⁻¹]	6600	
Torque constant K_T [Nm/A]	0.33	0.42
Voltage constant K_E [V/1000 min ⁻¹]	0.19	0.24
Stator resistance R_{2ph} [Ω]	0.5	0.81
Stator inductance L_{2ph} [mH]	2	3.3
Electrical time constant t_{el} [ms]	3.98	4.08
Thermal time constant t_{therm} [min]	34	
Moment of inertia without brake J [Kgcm ²]	0.95	
Weight without brake m [kg]	2.45	
Holding brake		
Holding torque of the brake M_{br} [Nm]	3.2	
Weight of brake m_{br} [kg]	0.29	
Moment of inertia for brake J_{br} [Kgcm ²]	0.38	
Recommendations		
EnDat 2.2 cables	8BCFxxxx.1221B-0	
Motor cable	8BCMxxxx.1034C-0	
Resolver cables	8BCRxxxx.1121A-0	
Servo drive for 320V operation ¹⁾	-	
Servo drive for 80V operation ¹⁾	80VD100Px.xxxx-xx	

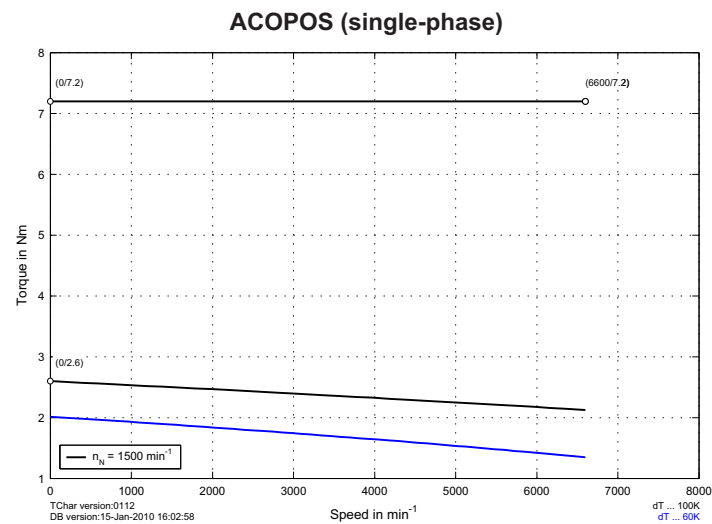
¹⁾ The recommended servo drive / inverter module is defined for 1.1x the stall current of the motor; if more than double the stall torque is required during the acceleration phase, the next larger servo drive should be selected. This recommendation is only a guideline, detailed inspection of the corresponding speed - torque characteristic curve can result in deviations of the servo drive size (one size larger or smaller).

Speed - torque characteristic curve at 80 V DC bus voltage



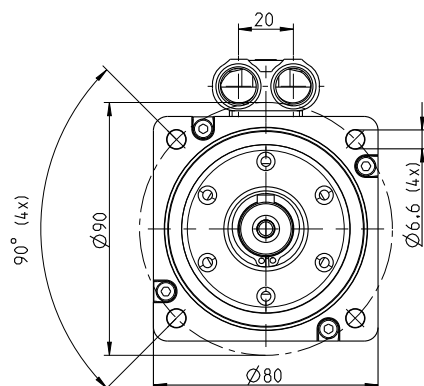
8LVA33.eennnffgg-0

Speed-torque characteristic curves with 230 VAC supply voltage

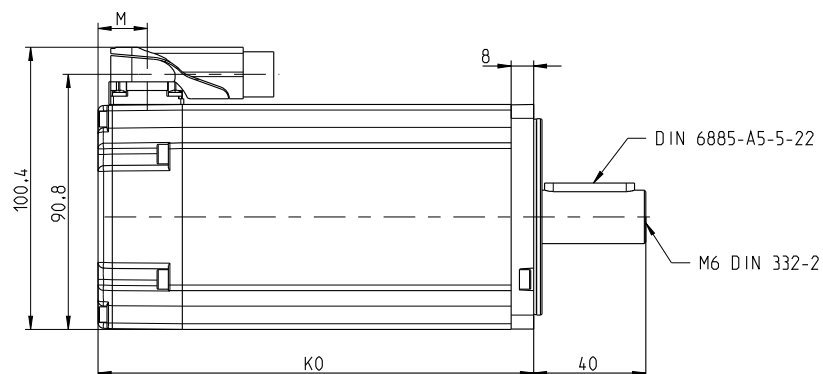
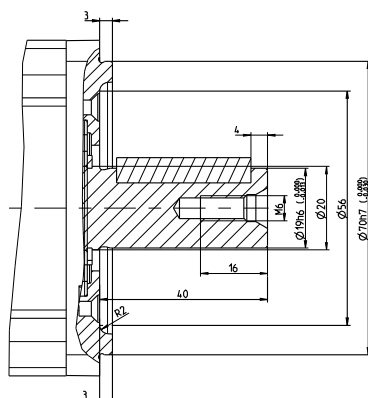


8LVA33.eennnffgg-0

8LVA3



A flange detail Standard bearing



EnDat feedback / Resolver feedback			Extension of K ₀ depending on the motor option [mm]	
Model number	K ₀	M	Holding brake	Oil seal
8LVA33.eennnffgg-0	119	17.5	36	5

Maximum shaft load

The values in the diagram below are based on a mechanical lifespan of the bearings of 20,000 operating hours.

