8GP30-060 economy

Technical data

	8GP30-060hh005klm	8GP30-060hh010klm	8GP30-060hh025klm				
Gearbox							
Number of gear stages	1	1	2				
Gear ratio i	5	10	25				
Nominal output torque T _{2N} [Nm]	30	15	30				
Max. output torque T _{2max} [Nm]	48	24	48				
E-stop torque T _{2stop} [Nm]	60	30	60				
Idle torque [Nm] at 20°C and 3000 rpm		0.1					
Max. average drive speed n _{1N50%} [rpm] at 50% T _{2N} and S1		4500					
Max. average drive speed n _{1N100%} [rpm] at 100% T _{2N} and S1		4500					
Max. drive speed n _{1max} [rpm]	13000						
Max. backlash J _t [arcmin]	10	10	12				
Reduced backlash Jt [arcmin] less than		0					
Torsional rigidity C ₁₂₁ [Nm/arcmin]	2.3	2.3	2.5				
Tilting rigidity C _{2K} [Nm/arcmin]	0						
Max. breakdown torque M _{2Kmax} [Nm]	0						

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0 340

400

450

500

58

96

-25

90

Any

IP54

0.9

0.177

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0.186

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NOTE – Output torque / Max. output torque: This refers to an output shaft speed of $n_2 = 100$ rpm and application factor $K_A = 1$ as well as S1 operating mode for electrical machines and $T = 30^{\circ}$ C, depending on the diameter of the motor shaft. The maximum output torque is only permissible for 30,000 revolutions!

96

0.9

0.197

NOTE - E-stop torque: Approved for 1000x

Max. radial force Fr_{max} [N] for 30,000 h

Max. radial force Fr_{max} [N] for 20,000 h

Max. axial force Fa_{max} [N] for 30,000 h

Max. axial force Fa_{max} [N] for 20,000 h

Min. operating temperature B_{Tempmin} [°C]

Max. operating temperature B_{Tempmax} [°C]

Operating noise L_{PA} [dB(A)] Efficiency at full load ŋ [%]

Moment of inertia J₁ [kgcm²]

Mounting orientation

Protection

Weight m [kg]

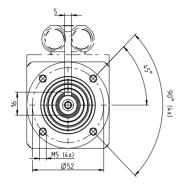
NOTE – Axial / radial force: With reference to the middle of the output shaft; the entries refer to an output shaft speed of n₂ = 100 rpm and application factor K_A = 1 as well as S1 operating mode for electrical machines and T =

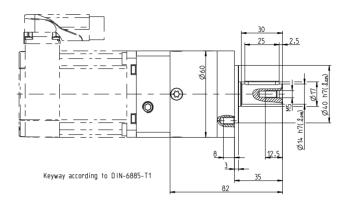
NOTE – Running noise: Noise level at a distance of 1 m; at an output speed of $n_1 = 3000$ rpm without a load; i = 5

NOTE – Operating temperature: With reference to the middle of the housing surface

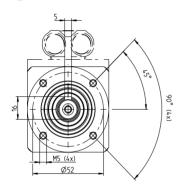
NOTE – Weight: Planetary gearbox including universal flange (specific weight upon request)

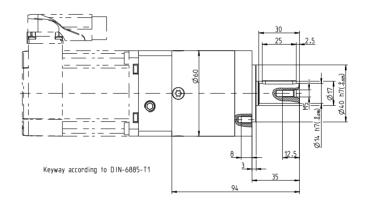
1-stage gear





2-stage gear





Adapter flange - Overview of dimensions

The flange length L completes the diagram for determining the gearbox length.

8GP30-060	8LSA2	8LSA3	8LVA2	8JSA2	8JSA3	80MPD	80MPF	80MPH
Flange length L [mm]	26.1	31.1	31.1	26.6	31.1	26.1	26.1	33.1
Flange diameter Q [mm]	61	91	61	61	70	61	61	90