

**GE280-DO**

Spherical plain bearing

Radial spherical plain bearing, requiring maintenance, sliding contact surface: steel/steel, DIN ISO 12240-1, dimension series E, open design High-performance: For highest load rating and lifetime demands

Technical information

**Your current product variant**

| | |
|---------------------------|--|
| Maintenance | Maintenance required |
| Material | Steel |
| Sealing | Without |
| Radial internal clearance | CN (Group N) Normal internal clearance |
| Coating | Durotect M Inner- and outer ring coated with Durotect M (Manganese Phosphate) |

Main Dimensions & Performance Data

| | | |
|-------------|--------------|-----------------------------------|
| d | 280 mm | Bore diameter bearing |
| D | 400 mm | Outside diameter bearing |
| B | 155 mm | Width inner ring |
| C_r | 3.570.000 N | Basic dynamic load rating, radial |
| C_{0r} | 17.900.000 N | Basic static load rating, radial |
| $\approx m$ | 64,8 kg | Weight |

Mounting dimensions

| | | |
|-------------------|----------|-------------------------------|
| $r_{1\text{min}}$ | 1,1 mm | Edge Spacing |
| $r_{2\text{min}}$ | 1,1 mm | Edge Spacing |
| $d_{a\text{max}}$ | 313,8 mm | Connection measure Inner ring |
| $D_{a\text{min}}$ | 342 mm | Housing Connection Diameter |



Dimensions

| | | |
|-------------------|--------------|--|
| C | 120 mm | Width Outer ring |
| d _K | 350 mm | Ball diameter |
| α | 6 ° | Tilt angle |
| d _{OT} | 0 mm | Bore diameter bearing, upper tolerance |
| d _{UT} | -0,035 mm | Bore diameter bearing, lower tolerance |
| D _{OT} | 0 mm | Outside diameter, upper tolerance |
| D _{UT} | -0,04 mm | Outside diameter, lower tolerance |
| B _{OT} | 0 mm | Width inner ring, upper tolerance |
| B _{UT} | -0,35 mm | Width inner ring, lower tolerance |
| C _{OT} | 0 mm | Width outer ring, upper tolerance |
| C _{UT} | -0,8 mm | Width outer ring, lower tolerance |
| G _r | 0,11 - 0,214 | Radial Clearance |
| G _{rmax} | 0,214 mm | Radial clearance, maximum |
| G _{rmin} | 0,11 mm | Radial clearance, minimum |

Temperature range

| | | |
|------------------|--------|----------------------------|
| T _{min} | -60 °C | Operating temperature min. |
| T _{max} | 200 °C | Operating temperature max. |



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Not sealed



Large bearing



Static angular error and misalignment



Dynamic angular error and misalignment