

**GE300-DO-2RS**

Spherical plain bearing

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

Technical information



Your current product variant

| | | |
|---------------------------|----------------------|--|
| Maintenance | Maintenance required | |
| Material | Steel | |
| Type of Seal | 2RS | Lip seals on both sides |
| 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 | 300 mm | Bore diameter bearing |
| D | 430 mm | Outside diameter bearing |
| B | 165 mm | Width inner ring |
| C_r | 4.970.000 N | Basic dynamic load rating, radial |
| C_{0r} | 19.100.000 N | Basic static load rating, radial |
| $\approx m$ | 77,3 kg | Weight |

Mounting dimensions

| | | |
|-------------------|----------|-------------------------------|
| $r_{1\text{min}}$ | 1,1 mm | Edge Spacing |
| $r_{2\text{min}}$ | 1,1 mm | Edge Spacing |
| $d_{a\text{max}}$ | 336,7 mm | Connection measure Inner ring |
| $D_{a\text{min}}$ | 370 mm | Housing Connection Diameter |



Dimensions

| | | |
|-------------------|--------------|--|
| C | 120 mm | Width Outer ring |
| d _K | 375 mm | Ball diameter |
| α | 7 ° | 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} | -0,045 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} | -0,9 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} | -30 °C | Operating temperature min. |
| T _{max} | 130 °C | Operating temperature max. |



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Sealed on both sides



Large bearing



Static angular error and misalignment



Dynamic angular error and misalignment