

**GE220-DO-2RS-C3** [↗](#)

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 | C3 (Group 3) | Internal clearance larger than CN |
| Coating | Durotect M | Inner- and outer ring coated with Durotect M (Manganese Phosphate) |

Main Dimensions & Performance Data

| | | |
|-----------------|--------------|-----------------------------------|
| d | 220 mm | Bore diameter bearing |
| D | 320 mm | Outside diameter bearing |
| B | 135 mm | Width inner ring |
| C _r | 3.040.000 N | Basic dynamic load rating, radial |
| C _{0r} | 11.700.000 N | Basic static load rating, radial |
| ≈m | 35,5 kg | Weight |

Mounting dimensions

| | | |
|--------------------|----------|-------------------------------|
| r _{1smin} | 1,1 mm | Edge Spacing |
| r _{2smin} | 1,1 mm | Edge Spacing |
| d _{a max} | 239,5 mm | Connection measure Inner ring |
| D _{a min} | 267 mm | Housing Connection Diameter |



Dimensions

| | | |
|-------------------|---------------|--|
| C | 100 mm | Width Outer ring |
| d _K | 275 mm | Ball diameter |
| α | 8 ° | Tilt angle |
| d _{OT} | 0 mm | Bore diameter bearing, upper tolerance |
| d _{UT} | -0,03 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} | -0,3 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 | 0,214 - 0,318 | Radial Clearance |
| G _{rmax} | 0,192 mm | Radial clearance, maximum |
| G _{rmin} | 0,1 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