

**GE20-DO-2RS-C2**

## 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                |  |
| Sealing                   | 2RS                  | Lip seals on both sides  |
| Radial internal clearance | C2 (Group 2)         | Internal clearance smaller than CN                                 |
| Coating                   | Durotect M           | Inner- and outer ring coated with Durotect M (Manganese Phosphate) |

## Main Dimensions &amp; Performance Data

|                 |           |                                   |
|-----------------|-----------|-----------------------------------|
| d               | 20 mm     | Bore diameter bearing             |
| D               | 35 mm     | Outside diameter bearing          |
| B               | 16 mm     | Width inner ring                  |
| C <sub>r</sub>  | 38.500 N  | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 148.000 N | Basic static load rating, radial  |
| ≈m              | 0,06 kg   | Weight                            |

## Mounting dimensions

|                    |         |                               |
|--------------------|---------|-------------------------------|
| r <sub>1smin</sub> | 0,3 mm  | Edge Spacing                  |
| r <sub>2smin</sub> | 0,3 mm  | Edge Spacing                  |
| d <sub>a max</sub> | 24,1 mm | Connection measure Inner ring |
| D <sub>a min</sub> | 27,5 mm | Housing Connection Diameter   |



## Dimensions

|                   |             |  |
|-------------------|-------------|--|
| C                 | 12 mm       | Width Outer ring                       |
| d <sub>K</sub>    | 29 mm       | Ball diameter                          |
| α                 | 9 °         | Tilt angle                             |
| d <sub>OT</sub>   | 0 mm        | Bore diameter bearing, upper tolerance |
| d <sub>UT</sub>   | -0,01 mm    | Bore diameter bearing, lower tolerance |
| D <sub>OT</sub>   | 0 mm        | Outside diameter, upper tolerance      |
| D <sub>UT</sub>   | -0,011 mm   | Outside diameter, lower tolerance      |
| B <sub>OT</sub>   | 0 mm        | Width inner ring, upper tolerance      |
| B <sub>UT</sub>   | -0,12 mm    | Width inner ring, lower tolerance      |
| C <sub>OT</sub>   | 0 mm        | Width outer ring, upper tolerance      |
| C <sub>UT</sub>   | -0,24 mm    | Width outer ring, lower tolerance      |
| G <sub>r</sub>    | 0,01 - 0,04 | Radial Clearance                       |
| G <sub>rmax</sub> | 0,082 mm    | Radial clearance, maximum              |
| G <sub>rmin</sub> | 0,04 mm     | Radial clearance, minimum              |

## Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 130 °C | Operating temperature max. |

## Characteristics

|   |  |
|---|--|
|  | Radial load                            |
|  | Axial load in one direction            |
|  | Axial load in two directions           |
|  | Grease Lubrication                     |
|  | Sealed on both sides                   |
|  | Static angular error and misalignment  |
|  | Dynamic angular error and misalignment |