

**GE120-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                |  |
| Sealing                   | 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 &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 120 mm      | Bore diameter bearing             |
| D               | 180 mm      | Outside diameter bearing          |
| B               | 85 mm       | Width inner ring                  |
| C <sub>r</sub>  | 1.240.000 N | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 4.760.000 N | Basic static load rating, radial  |
| ≈m              | 7,9 kg      | Weight                            |

## Mounting dimensions

|                    |          |                               |
|--------------------|----------|-------------------------------|
| r <sub>1smin</sub> | 1 mm     | Edge Spacing                  |
| r <sub>2smin</sub> | 1 mm     | Edge Spacing                  |
| d <sub>a max</sub> | 135,5 mm | Connection measure Inner ring |
| D <sub>a min</sub> | 150 mm   | Housing Connection Diameter   |



## Dimensions

|            |               |  |
|------------|---------------|--|
| C          | 70 mm         | Width Outer ring                       |
| $d_K$      | 160 mm        | Ball diameter                          |
| $\alpha$   | 6 °           | Tilt angle                             |
| $d_{OT}$   | 0 mm          | Bore diameter bearing, upper tolerance |
| $d_{UT}$   | -0,02 mm      | Bore diameter bearing, lower tolerance |
| $D_{OT}$   | 0 mm          | Outside diameter, upper tolerance      |
| $D_{UT}$   | -0,025 mm     | Outside diameter, lower tolerance      |
| $B_{OT}$   | 0 mm          | Width inner ring, upper tolerance      |
| $B_{UT}$   | -0,2 mm       | Width inner ring, lower tolerance      |
| $C_{OT}$   | 0 mm          | Width outer ring, upper tolerance      |
| $C_{UT}$   | -0,5 mm       | Width outer ring, lower tolerance      |
| $G_r$      | 0,165 - 0,245 | Radial Clearance                       |
| $G_{rmax}$ | 0,165 mm      | Radial clearance, maximum              |
| $G_{rmin}$ | 0,085 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                   |
|  | Static angular error and misalignment  |
|  | Dynamic angular error and misalignment |