

**GE180-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	180 mm	Bore diameter bearing
D	260 mm	Outside diameter bearing
B	105 mm	Width inner ring
C _r	1.990.000 N	Basic dynamic load rating, radial
C _{0r}	7.650.000 N	Basic static load rating, radial
≈m	18,43 kg	Weight

Mounting dimensions

r _{1smin}	1,1 mm	Edge Spacing
r _{2smin}	1,1 mm	Edge Spacing
d _{a max}	198,9 mm	Connection measure Inner ring
D _{a min}	219 mm	Housing Connection Diameter



Dimensions

C	80 mm	Width Outer ring
d _K	225 mm	Ball diameter
α	6 °	Tilt angle
d _{OT}	0 mm	Bore diameter bearing, upper tolerance
d _{UT}	-0,025 mm	Bore diameter bearing, lower tolerance
D _{OT}	0 mm	Outside diameter, upper tolerance
D _{UT}	-0,035 mm	Outside diameter, lower tolerance
B _{OT}	0 mm	Width inner ring, upper tolerance
B _{UT}	-0,25 mm	Width inner ring, lower tolerance
C _{OT}	0 mm	Width outer ring, upper tolerance
C _{UT}	-0,7 mm	Width outer ring, lower tolerance
G _r	0,192 - 0,284	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
	Static angular error and misalignment
	Dynamic angular error and misalignment