

**GE31-ZO-E**

## Spherical plain bearing

Radial spherical plain bearing, requiring maintenance, sliding contact surface: steel/steel, inch size, open design

## Technical information



## Your current product variant

Maintenance	Maintenance required
Material	Steel
Sealing	Without
Radial internal clearance	CN (Group N)      Normal internal clearance
Coating	Durotect M      Inner- and outer ring coated with Durotect M (Manganese Phosphate)

## Main Dimensions &amp; Performance Data

d	31,75 mm	Bore diameter bearing
D	50,8 mm	Outside diameter bearing
B	27,762 mm	Width inner ring
C <sub>r</sub>	86.600 N	Basic dynamic load rating, radial
C <sub>0r</sub>	433.000 N	Basic static load rating, radial
≈m	0,22 kg	Weight

## Mounting dimensions

r <sub>1smin</sub>	0,6 mm	Edge Spacing
r <sub>2smin</sub>	0,6 mm	Edge Spacing
d <sub>a max</sub>	36 mm	Connection measure Inner ring
D <sub>a min</sub>	40,5 mm	Housing Connection Diameter



### Dimensions

C	23,8 mm	Width Outer ring
d <sub>K</sub>	45,5 mm	Ball diameter
α	6 °	Tilt angle
d <sub>OT</sub>	0 mm	Bore diameter bearing, upper tolerance
d <sub>UT</sub>	-0,012 mm	Bore diameter bearing, lower tolerance
d <sub>T</sub>	0,012	Bore diameter bearing, tolerance
D <sub>OT</sub>	0 mm	Outside diameter, upper tolerance
D <sub>UT</sub>	-0,013 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>	-0,3 mm	Width outer ring, lower tolerance
G <sub>r</sub>	0,08 - 0,18	Radial Clearance
G <sub>rmax</sub>	0,18 mm	Radial clearance, maximum
G <sub>rmin</sub>	0,08 mm	Radial clearance, minimum

### Temperature range

T <sub>min</sub>	-60 °C	Operating temperature min.
T <sub>max</sub>	200 °C	Operating temperature max.



### Characteristics

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Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Not sealed



Static angular error and misalignment



Dynamic angular error and misalignment