

**GE100-SX**

## Spherical plain bearing



Angular contact spherical plain bearing,  
requiring maintenance, sliding contact  
surface: steel/steel, DIN ISO 12240-2, open  
design

## Technical information



## Your current product variant

Maintenance	Maintenance required	
Coating	Durotect M	Inner- and outer ring coated with Durotect M (Manganese Phosphate)

## Main Dimensions &amp; Performance Data

d	100 mm	Inner diameter bearing
D	150 mm	Outside diameter bearing
T	32 mm	Height
C <sub>r</sub>	441.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	1.700.000 N	Basic static load rating, radial
≈m	2,301 kg	Weight

## Mounting dimensions

r <sub>1smin</sub>	2 mm	Edge Spacing
r <sub>2smin</sub>	0,6 mm	Edge Spacing
d <sub>a max</sub>	112 mm	Connection measure Inner ring
D <sub>a min</sub>	123 mm	Housing Connection Diameter
D <sub>b min</sub>	142 mm	Connection diameter



## Dimensions

$d_K$	140 mm	Ball diameter
$D_1$	114,3 mm	Inner diameter of housing washer
B	30 mm	Width Inner ring
C	30 mm	Width Outer ring
s	12 mm	Plane Surface Spacing
A	16 mm	Distance lubrication Bore
$\alpha$	1,7 °	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	Outer diameter, upper tolerance
$D_{UT}$	-0,02 mm	Outside diameter, lower tolerance
$T_{OT}$	0,25 mm	Height, upper tolerance
$T_{UT}$	-0,25 mm	Height, lower tolerance
$C_{UT}$	0 mm	Width outer ring, upper tolerance
$C_{OT}$	-0,4 mm	Width outer ring, lower tolerance
$B_{OT}$	0 mm	Width inner ring, upper tolerance
$B_{UT}$	-0,4 mm	Width inner ring, lower tolerance
$d_2$	128 mm	Connection measure Inner ring

## Temperature range

$T_{min}$	-60 °C	Operating temperature min.
$T_{max}$	200 °C	Operating temperature max.



### Characteristics

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Radial load



Axial load in one direction



Grease Lubrication



Not sealed



Static angular error and misalignment



Dynamic angular error and misalignment