

**GE50-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 & Performance Data

d	50 mm	Inner diameter bearing
D	80 mm	Outside diameter bearing
T	20 mm	Height
C_r	154.000 N	Basic dynamic load rating, radial
C_{0r}	592.000 N	Basic static load rating, radial
$\approx m$	0,449 kg	Weight

Mounting dimensions

$r_{1\text{min}}$	1 mm	Edge Spacing
$r_{2\text{min}}$	0,3 mm	Edge Spacing
$d_{a\text{max}}$	58 mm	Connection measure Inner ring
$D_{a\text{min}}$	65 mm	Housing Connection Diameter
$D_{b\text{min}}$	75 mm	Connection diameter



Dimensions

d_K	74 mm	Ball diameter
D_1	59,1 mm	Inner diameter of housing washer
B	19 mm	Width Inner ring
C	19 mm	Width Outer ring
s	4 mm	Plane Surface Spacing
A	10 mm	Distance lubrication Bore
α	1,6 °	Tilt angle
d_{OT}	0 mm	Bore diameter bearing, upper tolerance
d_{UT}	-0,012 mm	Bore diameter bearing, lower tolerance
D_{OT}	0 mm	Outer diameter, upper tolerance
D_{UT}	-0,016 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}	-0,24 mm	Width outer ring, lower tolerance
B_{OT}	0 mm	Width inner ring, upper tolerance
B_{UT}	-0,24 mm	Width inner ring, lower tolerance
d_2	67 mm	Connection measure Inner ring

Temperature range

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



Characteristics



Radial load



Axial load in one direction



Grease Lubrication



Not sealed



Static angular error and misalignment



Dynamic angular error and misalignment