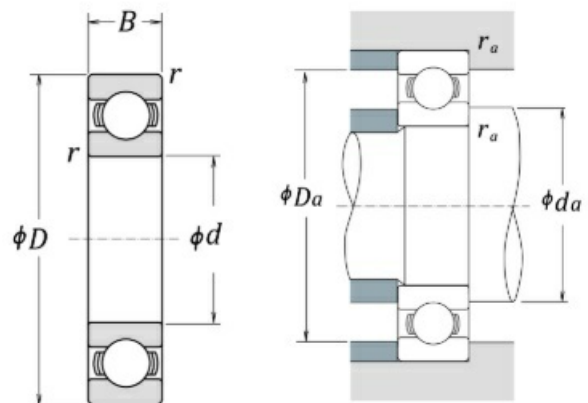


60/22

Deep groove ball bearings, single row, Open



Technical sheet of 60/22

What are the Benefits of choosing 60/22 bearings?

- **Versatile Load Bearing:** Capable of simultaneously withstanding radial and bidirectional axial loads, suitable for high-speed and ultra-high-speed applications.
- **Low Friction and Long Life:** Optimized contact between the raceway and steel balls results in an extremely low coefficient of friction, minimal heat generation, and a long service life.
- **High Speed Capability:** Due to high operational precision, it allows for very high maximum speeds.
- **Low Maintenance Costs:** Can be designed with dust covers or sealing rings for lifetime lubrication, requiring no routine maintenance.
- **Rigid and Quiet Operation:** Provides a certain level of rotational stiffness while maintaining low operating noise and vibration levels.

Type :	Deep Groove Ball Bearings	
Model :	60/22	
Old Code :	1/22	
Main demensions :	22 mm × 44 mm × 12 mm	Bore Dia × Outside Dia × Width Dia
M kg:	0.074	Mass
HS Code :	8482102000	Bearing customs code

d mm:	22	inner ring diameter
D mm:	44	Outer ring diameter
B(T) mm:	12	Overall Width
Cr kN:	10.08	Radial dynamic load rating
C_{0r} kN:	4.931	Radial static load rating
Grease r/min:	16968	Reference speed
Oil r/min:	19891	Limiting speed

Detailed parameters and installation dimensions:

Part Number	60/22
Seal	Open
Series	6000 metric, extra light series (60..)
Dimension Chamfer - r min	0.6 mm 0.0236 inch
Radial clearance	CN
Radial Dynamic Capacity - C _r	10080 N 2265 lbf
Radial Static Capacity - C _{0r}	4931 N 1108 lbf
Bore	Cylindrical
Units	Metric
Speed ratings (grease) - n _B	16968 min ⁻¹
Speed ratings (oil) - n _G	19891 min ⁻¹
Equivalent	60/22
Load	radial
Rows NO.	One
Number of Balls - z	9
Ball Diameter - D _w	6.35 mm 0.2500 inch
Abutment Dimensions Shaft - d _a min	26 mm 1.0236 inch
Abutment Dimensions Shaft - d _a max	26.5 mm 1.0433 inch
Abutment Dimensions Housing - D _a max	40 mm 1.5748 inch
Cage	Pressed Steel Cages
Temperature - T(min)	-10 °C
Temperature - T(max)	110 °C
Interchangeable	NSK 60/22
Dimension Inside - d φ	22 mm 0.8661 inch
Dimension Outside - D Φ	44 mm 1.7323 inch
Dimension Width - B	12 mm 0.4724 inch
Tolerance class	P0 (ABEC-1)
Ball Material	GCr15SiMn
Fillet Radius - r _a max	0.6 mm 0.0236 inch
Factor - f ₀	14
Bearing Type	Deep groove ball bearings, single row, Open
Bearing Mass - m	0.074 kg 0.1631 lb

Manufacturer Part Code	60/22
Ring Material	GCr15SiMn

What are the applications of the 60/22 bearing?

- **Motors/Electrical Appliances:** Used in motors and home appliances. Ensures smooth high-speed operation and low noise.
- **Automotive Industry:** Used in generators and gearboxes. Suitable for medium loads and offers high reliability.
- **General Machinery:** Used in pumps, fans, and speed reducers. Low friction, maintenance-free, and long service life.

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