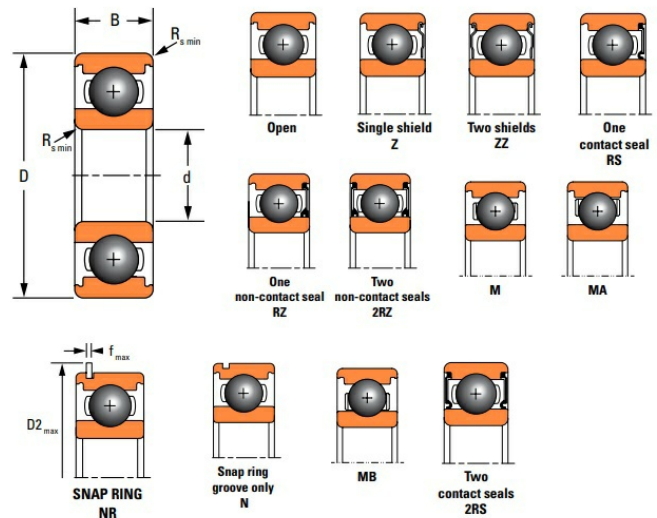


6005ZZ

Standard 6000 Series Deep Groove Ball Bearings



Technical sheet of 6005ZZ

What are the Benefits of choosing 6005ZZ 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 :	Single row deep groove ball bearings	
Model :	6005ZZ	
Main demensions :	25 mm × 47 mm × 12 mm	Bore Dia × Outside Dia × Width Dia
M kg:	0.08	Mass
HS Code :	8482102000	Bearing customs code
d mm:	25	inner ring diameter
D mm:	47	Outer ring diameter

B(T) mm:	12	Overall Width
Cr kN:	9.604	Radial dynamic load rating
C_{0r} kN:	5.673	Radial static load rating
Grease r/min:	13989	Reference speed
Oil r/min:	20979	Limiting speed

Detailed parameters and installation dimensions:

Part Number	6005ZZ
Cage	Stamping steel cage
Load	radial
Speed ratings (grease) - n_B	13989 min ⁻¹
Speed ratings (oil) - n_G	20979 min ⁻¹
Seal	ZZ = double shields
Seal Material	Low-carbon pressed steel
Series	60 = extra-light (60..-ZZ)
Temperature - T(min)	-50 °C
Temperature - T(max)	120 °C
Units	metric
Bearing Mass - m	0.08 kg 0.1764 lb
Ring Material	GCr15SiMn
Lubrication	No
Dimension Inside - d ϕ	25 mm 0.9843 inch
Dimension Outside - D Φ	47 mm 1.8504 inch
Dimension Width - B	12 mm 0.4724 inch
Ball Material	GCr15SiMn
Rows NO.	One
Interchangeable	TIMKEN 6005ZZ
Radius - R _s min	0.6 mm 0.0236 inch
Tolerance class	P0 (ABEC-1)
Radial Dynamic Capacity - C _r	9604 N 2158 lbf
Radial Static Capacity - C _{0r}	5673 N 1275 lbf
Manufacturer Part Code	6005-ZZ
Bearing Type	Standard 6000 Series Deep Groove Ball Bearings
RIC	C0

What are the applications of the 6005ZZ 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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