

C450067 (SH.1/5)

Technical Specification for Rolling BearingsDRAWINGS AND TECHNICAL INFORMATION TO BE SUBMITTED WITH QUOTATION EVERY TIME ON BEARING OFFERED

1. Dimensioned drawing of the bearing.
2. Type & Make of bearing.
3. Significance of each suffix/prefix.
4. Accuracy class; (Normal/P5/P6)
5. Suitability for application : (Traction / Industrial)
6. Number of rollers & size.
7. Radial internal clearance.
8. Axial clearance.
9. Type of cage construction : (Standard/Drop roller).
10. Type of cage guiding : (Roller/Outer race)
11. Cage Material : (Brass/Steel)
12. Material specification for rollers & races.
13. Surface finish on rollers and races.
14. Dynamic capacity of bearing.
15. Static capacity of bearing.
16. Maximum permissible speed (with Grease lubrication)

GENERAL REQUIREMENTS:

Bearings offered should conform to the below mentioned requirements :

1. Bearings should be of special execution for traction application with suffix VA301 (SKF), F1 (FAG), BV1 (STEYR), MT (RHP) etc. Following special features may be envisaged in design and manufacturing processes.
 - 1.1 Improved and uniform surface finish by grinding of track chamfers, honing of tracks and lapping of rollers.
 - 1.2 Optimized cage construction for efficient lubrication.
 - 1.3 Vibration and noise level specially controlled.
 - 1.4 Bearings rings stabilised for higher temperatures.
 - 1.5 Uniform hardness on bearing rings and rollers, variation not exceeding 1/2 RC with in the same element.
 - 1.6 WE REQUIRE BEARINGS WITH INTERCHANGEABLE ASSEMBLY ONLY.
2. Boundary dimensions and its tolerance to be as per this drawing and is generally based on ISO 15:1981 and ISO 492:1981.
3. Radial Bearing clearance & Axial clearance in roller bearing to be as per this drawing and is generally based on draft ISO 5742 Rev., DIN 520 & DIN 43283 unless stated otherwise in the drawing.
4. Accuracy class for internal dimensions of bearing to be P5/P6.
5. Rollers should be designed to cater for increased load carrying capacity.

DIVISIONAL STANDARDS

REV. 15	REVISED & REDRAWN.	BHARAT HEAVY ELECTRICALS LTD. BHOPAL	
ISSUED	By		
APPD.	Asst. Mgr.		
CHANGED TO BE APPD. BY	OK - I TEAM - B	SCALE: N.T.S.	C450067 (SH.1/5)