

**SPECIFICATION FOR ROLLER BEARING OF 3-PHASE TRACTION MOTOR  
TYPE 6FRA-6068/6FXA-7059**

- 1.0 **SCOPE:** This specification covers the requirement of Roller Bearing to be used in manufacture of 3-Phase Traction Motor type 6FRA-6068/6FXA-7059.
- 2.0 **REQUIREMENT:** The material shall comply with this specification with detailed technical particulars listed below.
- 3.0 **TECHNICAL REQUIREMENT:**

Type of Motor	6FRA 6068 for WAG-9 Loco			6 FXA 7059 For WAP-5 Loco		
Type of Bearing	NU 2236E/ C4	NJ320E/ C4	Thrust Coller HJ320E suitable for bearing NJ320E/ C4	NU224E/ C4	NJ219E/ C4	Thrust Coller HJ219E suitable for Bearing NJ219E/ C4
Location	Driving End (DE)	Non-Driving end (NDE)	Non-Driving end (NDE)	Driving End (DE)	Non-Driving End (NDE)	Non-Driving end (NDE)
Cage Design	One Part brass solid	Two Part brass solid  OR One part/ Polyamide	-	Two Part brass solid  OR - One part/ Polyamide	Two Part brass solid  OR One Part Polyamide	-
Special feature	-	Current insulated	-	-	Current insulated	-

4.0 Reference to ABB Standard :-

This specification is equivalent to ABB specification No.3EHM 620 747

Roller Bearing NU 2236E/C4 is equivalent to ABB Indent. No.3EHM 620 747 P 256 at page 6.

Roller Bearing NJ 320E/C4 is equivalent to ABB Indent. No.3EHM 620 747 P 340 at page 8.

Thrust Coller HJ320E is equivalent to ABB Indent. No. 3EHM 620 747 P 341 at page 8.

Contd....p/2

Jalandhar  
REVIEW  
  
 Abhishek  
CHKD.  
  
 Anand  
DNR.

SPECIFICATION FOR  
ROLLER BEARING OF  
3-PHASE TRACTION MOTOR  
TYPE - 6FRA-6068/6FXA-7059

*Leigh*  
DY. CEE/TMD

CHITTARANJAN LOCOMOTIVE WORKS  
WEST BENGAL  
NO. 4TMS. 096.065  
DATE : 7.10.99

~~The specification is equivalent to IEC Spec No. 3EHM 620 747~~

Roller Bearing NU224E/C4 is equivalent to ABB Indent.No. 3EHM 620 747 P 241 at page 5.

Roller Bearing NJ219E/C4 is equivalent to ABB Indent.No. 3EHM 620 747 P236 at page 5.

Thrust Coller HJ219E is equivalent to ABB Indent No.3EHM 620 747 P237 at Page 5

The relevent portion of the copy of the same is enclosed herewith for guideline of the tenderers.

5.0 Supply Condition:

Each bearing shall be marked with manufacturer's name, designation of bearing, purchase order reference and date, Sl.No., date of manufacture etc.

6.0 Packing :

The material shall be suitably packed as to ensure safe transportation of material without any damage.

7.0 Information to the tenderer :

The tenderer should quote seperately for each of the type of cage design.

Approved  
DNR.

Factory  
CHKD.

Periodic  
REVIEW

Sheet End.

SPECIFICATION FOR  
ROLLER BEARING OF  
3-PHASE TRACTION MOTOR  
TYPE-6FRA-6068/6FXA-7059

*Keingh*  
DY. CEE/TMD

CHITTARANJAN LOCOMOTIVE WORKS  
WEST BENGAL  
NO. 4TMS.096.065  
DATE : 7.10.99.