



## TIMKEN® DEEP GROOVE BALL BEARINGS

### ALL-AROUND TIMKEN RELIABILITY

Our deep groove ball bearings deliver reliable performance in a wide range of applications and conditions. With super-finished raceways and controlled geometries, our premium design helps ensure consistent quality.

### EXTENDED PRODUCT OFFERING

Our portfolio includes standard, thin section, narrow, wide and miniature and extra-small deep groove ball bearings that span 3 mm to 400 mm bore sizes. The extended product line includes a complete offering of open, shields, seals and snap ring combinations.

## FULL RANGE OF METRIC BEARINGS

### EASY INTERCHANGE

Designed as metric bearings, our deep groove ball bearings follow ISO standards and are dimensionally interchangeable with competitor metric products.

### PREMIUM LUBRICANTS

For reduced torque and a quieter operation, Mobil Polyrex™ EM premium lubricant comes standard on all Timken sealed and shielded deep groove ball bearings. This electric motor bearing grease has a wide operating temperature range from -29° C to 177° C.

*Mobil and Polyrex™ lubricant are trademarks of Exxon Mobil Corporation.*

### BRASS CAGE AVAILABILITY

Deep groove ball bearings with brass cages (available in select sizes) can deliver extra strength and durability in the most unrelenting conditions:

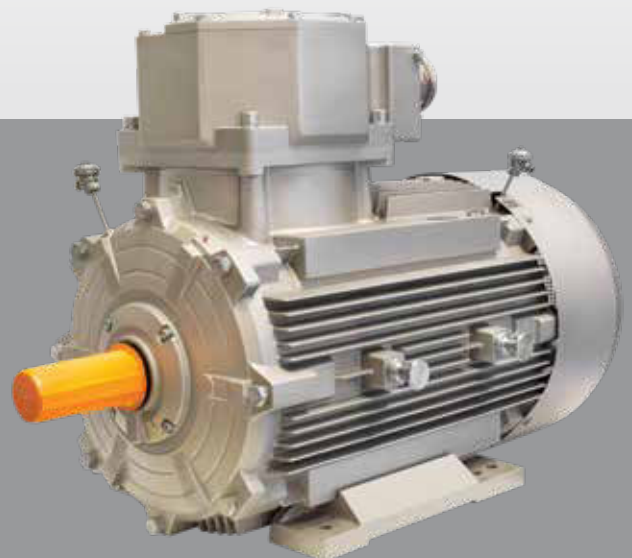
- Extreme shock loads
- High vibrations
- High forces due to acceleration

## QUIET RUNNING FOR ELECTRIC MOTOR QUALITY

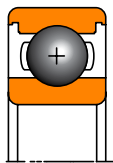
Deep groove ball bearings are frequently used in electric motor applications to minimize vibration and noise. To meet our long-standing electric motor quality guidelines for deep groove ball bearings we designed in:

- Super finishing on raceways to reduce friction
- Preferred clearance designation (C3)
- Premium grease for high performance, low torque and less noise

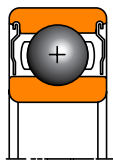
Timken deep groove ball bearings have lower vibration levels than competitors during independent electric motor application testing.



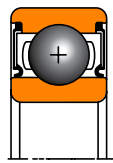
# PRODUCT RANGE



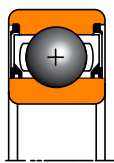
OPEN



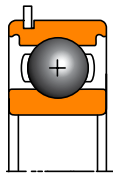
SHIELDS  
One = Z  
Two = ZZ



CONTACT SEALS  
One = RS  
Two = 2RS



NON-CONTACT SEALS  
One = RZ  
Two = 2RZ



SNAP RING  
Snap Ring = NR  
Groove Only = N

Construction	Series	Bore Range mm	O.D. Range mm
Standard	6000	10-400	26-600
	6200	10-260	30-480
	6300	10-220	35-460
	6400	25-320	80-480
Thin Section	61800	10-150	19-190
	61900	10-65	22-90
Narrow	16000	15-160	32-240
	16100	10-12	28-30
Wide	62000	10-70	30-125
	63000	10-40	26-68
Miniature and Extra-Small	600	3-9	9-24
	618/X	3-9	7-17
	619X	3-9	8-20
	620	3-9	10-26
	630	3-9	13-30

# NOMENCLATURE

62 05 M - ZZ - C3 - FSxxx or Axxxx

### Series Code

- 6 – extra small
- 618 – extra-ultra-light
- 619 – ultra-light
- 161 – extra-extra-light
- 60 – extra-light
- 62 – light
- 63 – medium
- 64 – heavy
- 160 – extra-light thin-type
- 620 – light wide-type
- 630 – medium wide-type

### Common Suffixes

- M – brass cage
- TN1 – polymer cage
- H – stainless steel bearing

### Internal Clearance

- C2 – tight
- C0/blank – normal
- C3 – loose
- C4 – extra loose
- C5 – extra-extra loose

### Special Code

e.g. special grease or non-standard geometry features

### Closures & Features

- Z – one shield
- ZZ – two shields
- RS – one contact seal
- 2RS – two contact seals
- RZ – one non-contact seal
- 2RZ – two non-contact seals
- NR – snap ring
- N – snap ring groove

### Bore Code

- 00 – 10 mm
- 01 – 12 mm
- 02 – 15 mm
- 03 – 17 mm
- 04 and up: bore (mm) = code x 5



## CHOOSE TIMKEN

See why Timken is your expert in bearings and mechanical power transmission by visiting our catalogs at [www.timken catalogs.squawqr.com](http://www.timken catalogs.squawqr.com) or scanning the QR code at left.

# TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets high-performance mechanical components, including bearings, belts, chain, gears and related mechanical power transmission products and services.

Stronger. By Design.

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