



## TIMKEN<sup>®</sup> 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 850 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.

### 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:

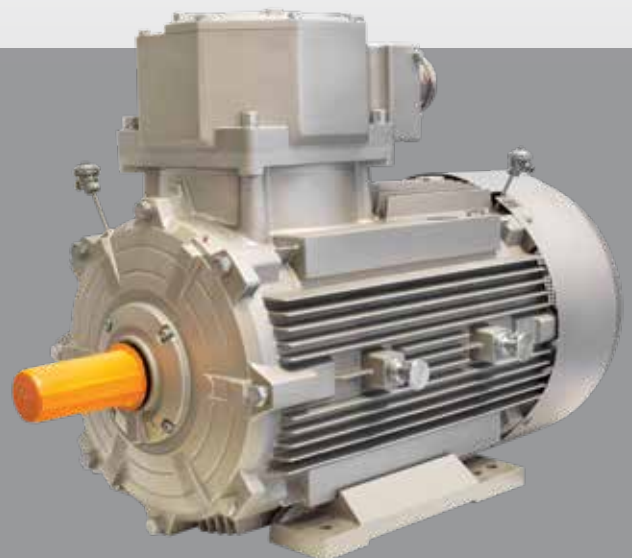
- Extreme shock loads
- High vibrations
- High forces due to acceleration

## QUIET RUNNING FOR ELECTRIC MOTOR QUALITY

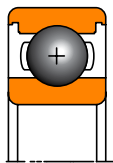
Deep groove ball bearings are frequently used in electric motor applications to minimize vibration and noise. To meet our long-standing electric motor quality guidelines for deep groove ball bearings we designed in:

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

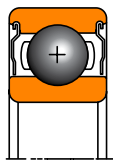
Timken deep groove ball bearings have lower vibration levels than competitors during independent electric motor application testing.



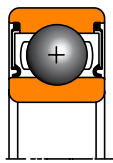
# PRODUCT RANGE



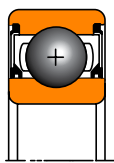
OPEN



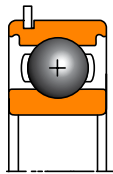
**SHIELDS**  
One = Z  
Two = ZZ



**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
<b>Standard</b>	6000	10-400	26-600
	6200	10-260	30-480
	6300	10-220	35-460
	6400	25-320	80-480
<b>Thin Section</b>	61800	10-850	19-1030
	61900	10-90	22-125
<b>Narrow</b>	16000	15-160	32-240
	16100	10-12	28-30
<b>Wide</b>	62000	10-70	30-125
	62300	10-55	30-120
	63000	10-40	26-68
<b>Miniature and Extra-Small</b>	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 - Vxxxx

### 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  
623 – extra-medium wide-type  
630 – medium wide-type

### Bore Code

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

### Common Suffixes

M – brass ball guided  
MA – brass outer ring guided  
MB – brass inner ring guided  
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

Vxxxx – special features  
VGxxx – special grease  
VSLxxx – special solid lube  
FVxxxx – food-grade grease  
FVSLxxx – food-grade solid lube

### 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



## CHOOSE TIMKEN

See why Timken is your expert in bearings and mechanical power transmission by visiting our catalogs at [www.timkencatalogs.squawqr.com](http://www.timkencatalogs.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 bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related power transmission rebuild and repair services.

**Stronger. By Design.**

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