



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:

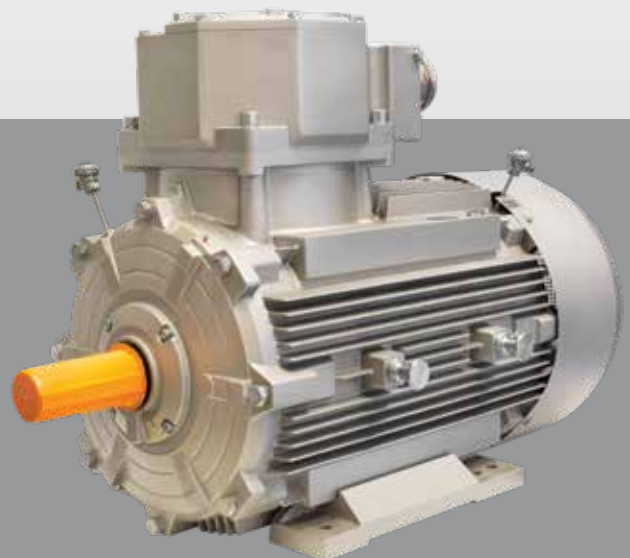
- Extreme shock loads
- High vibrations
- High forces due to acceleration

QUIET RUNNING FOR ELECTRIC MOTOR QUALITY

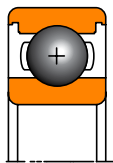
Deep groove ball bearings are frequently used in electric motor applications to minimize vibration and noise. To meet our long-standing electric motor quality guidelines for deep groove ball bearings we designed in:

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

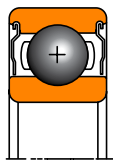
Timken deep groove ball bearings have lower vibration levels than competitors during independent electric motor application testing.



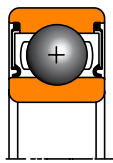
PRODUCT RANGE



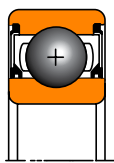
OPEN



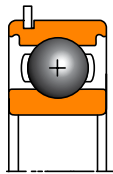
SHIELDS
One = Z
Two = ZZ



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 - 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
630 – medium wide-type

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

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.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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