



Schaeffler Deep Groove Ball Bearings

Unmatched performance and versatility

Thanks to narrower cage tolerances, greater ball accuracy and improved raceway surfaces (to quell noise) along with optimized kinematics (to reduce friction), Schaeffler deep groove ball bearings deliver superior performance. Add a choice of cage materials (steel, brass or low-friction polyamide), a variety of sealing configurations (open, sealed or shielded), multiple radial clearance options, even available current-insulated versions, and you've got the new standard for performance and versatility.

Only from Schaeffler.

SCHAEFFLER

Unmatched Performance and Versatility: Schaeffler Deep Groove Ball Bearings

PRODUCT FEATURES

- Enhanced ball & raceway surfaces for superior performance
- Sealed and shielded bearings supplied with low-noise Mobil Polyrex™ EM (L038) grease as standard
- C Normal and C3 clearances in stock
- Multiple sealing options (RSR contact seal / Z shield)
- Choice of steel, brass or low-friction polyamide cage
- Current-insulated versions available for maximum protection against electrical fluting

CUSTOMER BENEFITS

- Great value with premium Schaeffler quality
- Low noise
- Long service life

APPLICATIONS

- Ideal for electric motors, generators, pumps, compressors, blowers, fans, food processing equipment
- Perfect for devices that operate at high speeds

62 03-2RSR-L038-C3

PREFIXES

No prefix	Steel balls
S	Stainless steel
HC	Ceramic balls

SERIES

60	Extra light
62	Light
63	Medium
64	Heavy

BORE DIAMETER

00	10 mm
01	12 mm
02	15 mm
03	17 mm
04-96	Bore Reference x5 (mm)

SEALING & SHIELDING

none	Open bearing
Z	1 metal shield
2Z	2 metal shields
RSR	1 rubber seal (contact)
2RSR	2 rubber seals (contact)

RADIAL CLEARANCE CLASS

C2	Smaller than CN
CN	No suffix
C3	Greater than CN
C4	Greater than C3
C5	Greater than C4
Rxx-xx	Special radial clearance

GREASE CODES

L038	Polyrex EM
No suffix	Standard grease per plant
No suffix (Joplin)	L038
Lxxx	Other grease upon request

CURRENT INSULATED

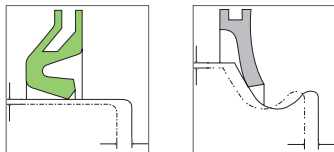
J20AA	Ceramic-coated outer ring
J20C	Ceramic-coated inner ring

CAGE DESIGN

No suffix	Standard pressed steel
M	Machine brass, ball guided
MA	Machine brass, outer ring guided
TVH	Glass fiber reinforced polyamide

Grease
L038 - Mobil Polyrex EM grease N.A. standard for electric motors
Standard grease in Joplin, USA Mobil Polyrex EM grease
6203-2RSR-L038-C3 Korean produced non-standard for plant, L038 = Mobil Polyrex EM grease
6315-2RSR-C3 Produced in Joplin, USA Mobil Polyrex EM, standard grease for Joplin

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RSR vs. conventional seal

Features	RSR Contact Seal	Conventional Seal
Seal operates on ground surface	Yes	No
Positive contact with any axial movement of race	Yes	No
Constant running torque	Yes	No
Prevents ingress of contamination	Yes	Moderate



Seals vs. Shields

	RSR Contact Seal excellent balance between friction & sealing efficiency	Z Shield economical non-contact sealing alternative
Sealing Effect		
Grease retention	Suitable	Suitable
Dust, dry contamination	Suitable	Less Suitable
Moist atmosphere	Suitable	Less Suitable
Occasional splashes	Suitable	Unsuitable
Rotating outer ring	Suitable	Unsuitable
Slight pressure differences	Suitable	Unsuitable