



SKF 6238 M

Deep groove ball bearing

Single row deep groove ball bearings are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

Technical specifications

Dimensions	
Bore diameter	190 mm
Deviation limits of mid-range bore diameter	-0.03..0 mm
Outside diameter	340 mm
Deviation limits of mid-range outside diameter	-0.04..0 mm
Width	55 mm
Deviation limits of ring width	-0.3..0 mm
Shoulder diameter	239.5 mm
Shoulder diameter	289.75 mm
Chamfer dimension	4 mm
ISO tolerance class for dimensions	Normal

Abutment dimensions	
Diameter of shaft abutment	207 mm
Diameter of housing abutment	323 mm
Radius of shaft or housing fillet	3 mm

Calculation data	
Basic dynamic load rating	255 kN
Basic static load rating	280 kN
Fatigue load limit	7.35 kN
Reference speed	3800 r/min
Limiting speed	3400 r/min
Minimum load factor	0.03
Calculation factor	15

Tolerances of run-out	
Range of section height at inner ring of assembled bearing	40 µm
Range of section height at outer ring of assembled bearing	70 µm
ISO tolerance class for geometrical tolerances	Normal

Performance	
Basic dynamic load rating	255 kN
Basic static load rating	280 kN
Reference speed	3800 r/min
Limiting speed	3400 r/min

Properties	
Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Machined brass
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Without

Lubricant	None
Relubrication feature	Without
Candidate for remanufacturing	Yes
Indicative carbon footprint for new product	78.6 kg CO ₂ e
Indicative carbon footprint for remanufactured product	27.5 kg CO ₂ e

Logistics	
Product net weight	21.8 kg
eClass code	23-05-08-01
UNSPSC code	31171504

SKF drawings