



SKF 61940 MA

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	200 mm
Deviation limits of mid-range bore diameter	-0.03..0 mm
Outside diameter	280 mm
Deviation limits of mid-range outside diameter	-0.035..0 mm
Width	38 mm
Deviation limits of ring width	-0.3..0 mm
Shoulder diameter	225.7 mm
Shoulder diameter	255.2 mm
Chamfer dimension	2.1 mm
ISO tolerance class for dimensions	Normal

Abutment dimensions	
Diameter of shaft abutment	210 mm
Diameter of housing abutment	270 mm
Radius of shaft or housing fillet	2 mm

Calculation data	
Basic dynamic load rating	148 kN
Basic static load rating	166 kN
Fatigue load limit	4.55 kN
Reference speed	4800 r/min
Limiting speed	3800 r/min
Minimum load factor	0.02
Calculation factor	16.4

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	60 µm
ISO tolerance class for geometrical tolerances	Normal

Performance	
Basic dynamic load rating	148 kN
Basic static load rating	166 kN
Reference speed	4800 r/min
Limiting speed	3800 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
Indicative carbon footprint for new product	26.6 kg CO ₂ e

Logistics	
Product net weight	7.38 kg
eClass code	23-05-08-01
UNSPSC code	31171504

SKF drawings