SKF QJ 312 MA

Four-point contact ball bearing

Four-point contact ball bearings can accommodate high axial loads in both directions and small radial loads. They can operate at very high speeds and are more suitable than deep groove ball bearings for supporting large axial forces. The outer ring, with ball and cage assembly, can be mounted separately from the two inner ring halves.

Technical specifications

Dimensions	
Bore diameter	60 mm
Outside diameter	130 mm
Width	31 mm
Shoulder diameter inner ring	77 mm
Shoulder diameter outer ring/ inner diameter housing washer	106 mm
Distance pressure point(s)	67 mm
Chamfer dimension inner ring	2.1 mm
Contact angle	35 °

Abutment dimensions	
Abutment diameter shaft	72 mm
Abutment diameter housing	118 mm
Fillet radius	2 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	156 kN
Basic static load rating	137 kN
Fatigue load limit	5.85 kN
Limiting speed	9000 r/min
Calculation factor	0.06
Limiting value	0.95
Calculation factor	0.6
Calculation factor	0.58
Calculation factor	0.66
Calculation factor	1.1

Performance	
Basic dynamic load rating	156 kN
Basic static load rating	137 kN
Limiting speed	9000 r/min
SKF performance class	SKF Explorer

Properties	
Contact type	Four-point contact
Number of rows	1
Locating feature, bearing outer ring	Without
Ring type	Two-piece inner ring and one-piece outer ring
Cage	Machined brass
Matched arrangement	No
Universal matching bearing	No
Axial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Indicative carbon footprint for new product	7.5 kg CO₂e

Logistics	
Product net weight	2.09 kg
eClass code	23-05-08-05
UNSPSC code	31171538

SKF drawings