



SKF QJ 219 N2MA

Four-point contact ball bearing with locating slots

Four-point contact ball bearings with locating slots 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. The locating slots can be used to prevent the outer ring from rotating.

Technical specifications

Dimensions	
Bore diameter	95 mm
Outside diameter	170 mm
Width	32 mm
Shoulder diameter inner ring	120 mm
Shoulder diameter outer ring/ inner diameter housing washer	145 mm
Distance pressure point(s)	93 mm
Locating slot depth outer ring	8.1 mm
Locating slot width outer ring	6.5 mm
Corner radius locating slot	1 mm
Chamfer dimension inner ring	2.1 mm
Contact angle	35 °

Abutment dimensions	
Abutment diameter shaft	107 mm
Abutment diameter housing	158 mm
Fillet radius	2 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	212 kN
Basic static load rating	232 kN
Fatigue load limit	8.5 kN
Limiting speed	6700 r/min
Calculation factor	0.14
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	212 kN
Basic static load rating	232 kN
Limiting speed	6700 r/min
SKF performance class	SKF Explorer

Properties	
Contact type	Four-point contact
Number of rows	1
Locating feature, bearing outer ring	Locating slot
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	11.9 kg CO ₂ e

Logistics	
Product net weight	3.3 kg
eClass code	23-05-08-05
UNSPSC code	31171538

SKF drawings

