



SKF QJ 318 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	90 mm
Outside diameter	190 mm
Width	43 mm
Shoulder diameter inner ring	124 mm
Shoulder diameter outer ring/ inner diameter housing washer	156 mm
Distance pressure point(s)	98 mm
Locating slot depth outer ring	11.7 mm
Locating slot width outer ring	10.5 mm
Corner radius locating slot	2 mm
Chamfer dimension inner ring	3 mm
Contact angle	35 °

Abutment dimensions	
Abutment diameter shaft	104 mm
Abutment diameter housing	176 mm
Fillet radius	2.5 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	285 kN
Basic static load rating	305 kN
Fatigue load limit	11 kN
Limiting speed	6300 r/min
Calculation factor	0.26
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	285 kN
Basic static load rating	305 kN
Limiting speed	6300 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	22 kg CO ₂ e

Logistics	
Product net weight	6.12 kg
eClass code	23-05-08-05
UNSPSC code	31171538

SKF drawings

