



## SKF QJ 309 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	45 mm
Outside diameter	100 mm
Width	25 mm
Shoulder diameter inner ring	58 mm
Shoulder diameter outer ring/ inner diameter housing washer	81.2 mm
Distance pressure point(s)	51 mm
Chamfer dimension inner ring	1.5 mm
Contact angle	35 °

Abutment dimensions	
Abutment diameter shaft	54 mm
Abutment diameter housing	91 mm
Fillet radius	1.5 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	100 kN
Basic static load rating	83 kN
Fatigue load limit	3.55 kN
Limiting speed	12000 r/min
Calculation factor	0.02
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	100 kN
Basic static load rating	83 kN
Limiting speed	12000 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

3.7 kg CO<sub>2</sub>e

<b>Logistics</b>	
Product net weight	1.02 kg
eClass code	23-05-08-05
UNSPSC code	31171538

SKF drawings

