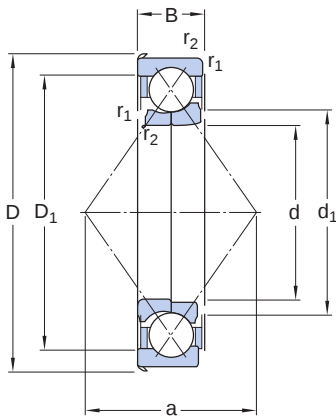


QJ 311 MA

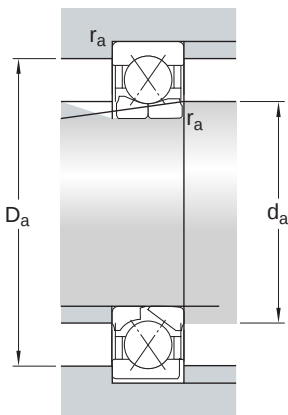


Four-point contact ball bearings can accommodate high axial loads in both directions and small radial loads. They can operate at very high speeds and are more suitable than deep groove ball bearings for supporting large axial forces. The outer ring, with ball and cage assembly, can be mounted separately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

- High-speed capability
- Accommodate high axial loads in both directions and small radial loads
- Require considerably less axial space than double row angular contact ball bearings



Dimensions		
d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	29 mm	Width
d ₁	≈ 70.5 mm	Shoulder diameter inner ring
D ₁	≈ 97.8 mm	Shoulder diameter outer ring/ inner diameter housing washer
a	61 mm	Distance pressure point(s)
r _{1,2}	min. 2 mm	Chamfer dimension inner ring



Abutment dimensions		
d _a	min. 66 mm	Abutment diameter shaft
D _a	max. 109 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

Calculation data

performance class	Explorer	
Basic dynamic load rating	C	137 kN
Basic static load rating	C ₀	118 kN
Fatigue load limit	P _u	5 kN
Limiting speed	10 000 r/min	
Calculation factor	A	0.0404
Limiting value	e	0.95
Calculation factor	X	0.6
Calculation factor	Y ₀	0.58
Calculation factor	Y ₁	0.66
Calculation factor	Y ₂	1.07

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6
- Internal clearance: table

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit