

Angular contact ball bearings, single row



7310 BECBJ

Popular item

SKF Explorer

Dimensions

d	50	mm
D	110	mm
B	27	mm
d ₁ ≈	73.8	mm
d ₂ ≈	61.13	mm
D ₁ ≈	88.8	mm
a	47	mm
r _{1,2} min.	2	mm
r _{3,4} min.	1	mm

Abutment dimensions

d _a min.	61	mm
D _a max.	99	mm
D _b max.	104	mm
r _a max.	2	mm
r _b max.	1	mm

Calculation data

Basic dynamic load rating	C	75	kN
Basic static load rating	C ₀	51	kN
Fatigue load limit	P _u	2.16	kN
Reference speed		7500	r/min
Limiting speed		8000	r/min
Calculation factor	A	0.0418	
Calculation factor	k _r	0.1	
Calculation factor	e	1.14	

Single bearing or bearing pair arranged in tandem

Calculation factor	X	0.35
Calculation factor	Y ₀	0.26
Calculation factor	Y ₂	0.57

Bearing pair arranged back-to-back or face-to-face

Calculation factor	X	0.57
Calculation factor	Y ₀	0.52
Calculation factor	Y ₁	0.55
Calculation factor	Y ₂	0.93

Mass

Mass bearing 1.1 kg