3217 A/C3

Double row angular contact ball bearings correspond, in their design and operation, to a pair of single row angular contact ball bearings in a back-to-back arrangement, while requiring less axial space. They can operate at high speeds and are more suitable than deep groove ball bearings for supporting large axial forces in both directions.

- High-speed capability
- Accommodate relatively high radial loads, high axial loads in both directions and tilting moments
- Suitable where a stiff bearing arrangement is required
- Require less axial space than equivalent pair of single row angular contact ball bearings

Dimensions

Bore diameter	d	85 mm
Outside diameter	D	150 mm
Width	B	49.2 mm
Shoulder diameter inner ring	d_1	≈ 103.73 mm
Shoulder diameter outer ring	D_1	≈ 135.19 mm
Chamfer dimension inner ring	$r_{1,2}$	min. 2 mm
Distance pressure point(s)	a	88 mm

Abutment dimensions

Abutment diameter shaft	d_a	min. 96 mm
Abutment diameter housing	D_a	max. 139 mm
Fillet radius	r_a	max. 2 mm

Calculation data

Basic dynamic load rating	C	124 kN
Basic static load rating	C_0	110 kN
Fatigue load limit	P_u	4.4 kN
Reference speed		4 500 r/min
Limiting speed		3 800 r/min
Calculation factor	k_r	0.06
Limiting value	e	0.8
Calculation factor	X	0.63
Calculation factor	Y_0	0.66
Calculation factor	Y_1	0.78
Calculation factor	Y_2	1.24

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5
- Internal clearance: table, drawing no

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit