



3203 A-2RS1TN9/C3MT33

Double row angular contact ball bearing with seals on both sides

Double row angular contact ball bearings, with seals on both sides, correspond to a pair of single row angular contact ball bearings in a back-to-back arrangement, while requiring less axial space. Depending on the sealing execution, 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
- Integral sealing prolongs bearing service life

Overview

Dimensions

Bore diameter	17 mm
Contact angle	30 °
Outside diameter	40 mm
Width	17.5 mm

Performance

Basic dynamic load rating	14.3 kN
Basic static load rating	8.8 kN
Limiting speed	12 000 r/min

Properties

Arrangement of contact angle (double-row bearing)	Back-to-back (0)
Axial internal clearance	C3
Cage	Non-metallic
Coating	Without
Contact type	Normal contact (two-point contact)
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	2



Relubrication feature	Without
Ring type	One-piece inner and outer rings
Sealing	Seal on both sides
Sealing type	Contact
Universal matching bearing	No



Technical Specification

Dimensions

Bore diameter	d	17 mm
Outside diameter	D	40 mm
Width	В	17.5 mm
Shoulder diameter inner ring	d_1	≈ 25.11 mm
Recess diameter inner ring shoulder	d ₂	≈ 23.3 mm
Shoulder diameter outer ring	D_1	≈ 33.55 mm
Recess diameter outer ring shoulder	D_2	≈ 34.95 mm
Chamfer dimension inner ring	r _{1,2}	min. 0.6 mm
Distance pressure point(s)	a	23 mm

Abutment dimensions

Abutment diameter shaft	d_a	min. 21.4 mm
Abutment diameter shaft	d_{a}	max. 23 mm
Abutment diameter housing	D_a	max. 35.6 mm
Fillet radius	r _a	max. 0.6 mm

Calculation data

Basic dynamic load rating	С	14.3 kN
Basic static load rating	C_0	8.8 kN
Fatigue load limit	P_{u}	0.365 kN
Limiting speed		12 000 r/min
Calculation factor	k _r	0.06
Limiting value	е	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



Mass

Mass bearing 0.096 kg



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