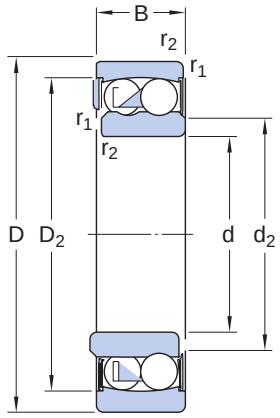
2310 E-2RS1TN9

Self-aligning ball bearings, with seals on both sides, have two rows of balls, a common sphered raceway in the outer ring and two deep uninterrupted raceway grooves in the inner ring. They are insensitive to angular misalignment of the shaft relative to the housing. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

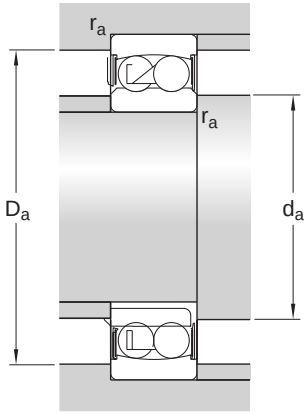
- Accommodate static and dynamic misalignment
- Excellent high-speed performance
- Excellent light load performance
- Low friction
- Integral sealing results in reduced maintenance requirements and prolonged bearing service life

Bore type	Cylindrical



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	40 mm	Width
d_2	≈ 62.9 mm	Recess diameter inner ring
D_2	≈ 95.2 mm	Recess diameter outer ring
$r_{1,2}$	min. 2 mm	Chamfer dimension



Abutment dimensions

d_a	min. 61 mm	Abutment diameter shaft
d_a	max. 62.5 mm	Abutment diameter shaft
D_a	max. 99 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	43.6 kN
Basic static load rating	C_0	14 kN
Fatigue load limit	P_u	0.72 kN
Reference speed		11 000 r/min
Limiting speed		4 000 r/min
Permissible angular misalignment	α	1.5 °
Calculation factor	k_r	0.05
Limiting value	e	0.24
Calculation factor	Y_0	2.8
Calculation factor	Y_1	2.6
Calculation factor	Y_2	4.1

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, JS7
- Radial internal clearance: table

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fits