

2305 E-2RS1TN9

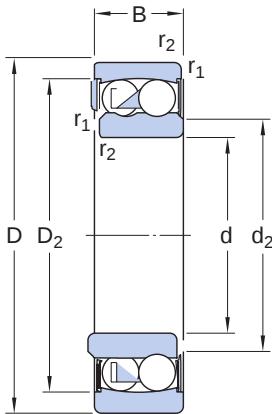
Self-aligning ball bearings, with seals on both sides, have two rows of balls, a common sphered raceway in the outer ring and two deep uninterrupted raceway grooves in the inner ring. They are insensitive to angular misalignment of the shaft relative to the housing. The integral sealing can significantly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



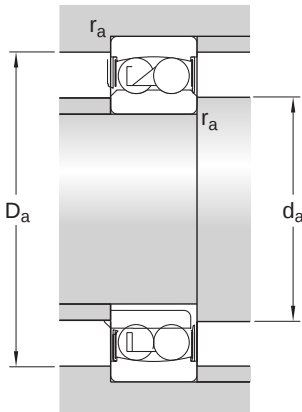
- Accommodate static and dynamic misalignment
- Excellent high-speed performance
- Excellent light load performance
- Low friction
- Integral sealing results in reduced maintenance requirements and prolonged bearing service life

Bore type

Cylindrical



Dimensions		
d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	24 mm	Width
d ₂	≈ 32.8 mm	Recess diameter inner ring
D ₂	≈ 52.7 mm	Recess diameter outer ring
r _{1,2}	min. 1.1 mm	Chamfer dimension



Abutment dimensions		
da	min. 32 mm	Abutment diameter shaft
da	max. 32.5 mm	Abutment diameter shaft
Da	max. 55 mm	Abutment diameter housing
ra	max. 1.1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	19 kN
Basic static load rating	C ₀	5.4 kN
Fatigue load limit	P _u	0.28 kN
Reference speed		22 000 r/min
Limiting speed		7 500 r/min
Permissible angular misalignment	α	1.5 °
Calculation factor	k _r	0.05
Limiting value	e	0.28
Calculation factor	Y ₀	2.5
Calculation factor	Y ₁	2.2
Calculation factor	Y ₂	3.5

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

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

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fits