



# 1308 ETN9 Self-aligning ball bearings

- Popular item

## Self-aligning ball bearings

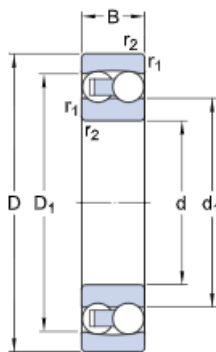
### Bearing data

[Tolerances](#),  
Normal, JS7,  
[Radial internal clearance](#),  
table

### Bearing interfaceS

[Seat tolerances for standard conditions](#),  
[Tolerances and resultant fits](#)

## Technical specification

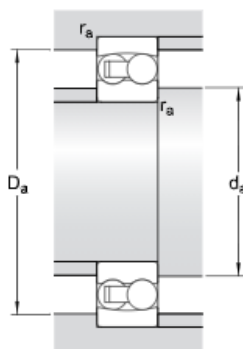


### DIMENSIONS

|                  |             |                              |
|------------------|-------------|------------------------------|
| d                | 40 mm       | Bore diameter                |
| D                | 90 mm       | Outside diameter             |
| B                | 23 mm       | Width                        |
| d <sub>1</sub>   | ≈ 61.47 mm  | Shoulder diameter inner ring |
| D <sub>1</sub>   | ≈ 80.2 mm   | Shoulder diameter outer ring |
| r <sub>1,2</sub> | min. 1.1 mm | Chamfer dimension            |

### ABUTMENT DIMENSIONS

|                |             |                           |
|----------------|-------------|---------------------------|
| d <sub>a</sub> | min. 49 mm  | Abutment diameter shaft   |
| D <sub>i</sub> | max. 81 mm  | Abutment diameter housing |
| r <sub>a</sub> | max. 1.1 mm | Fillet radius             |



## CALCULATION DATA

|                |              |                                  |
|----------------|--------------|----------------------------------|
| C              | 33.8 kN      | Basic dynamic load rating        |
| C <sub>0</sub> | 11.2 kN      | Basic static load rating         |
| P <sub>u</sub> | 0.57 kN      | Fatigue load limit               |
|                | 14 000 r/min | Reference speed                  |
|                | 9 500 r/min  | Limiting speed                   |
| α              | 3 °          | Permissible angular misalignment |
| k <sub>r</sub> | 0.04         | Calculation factor               |
| e              | 0.23         | Calculation factor               |
| Y <sub>0</sub> | 2.8          | Calculation factor               |
| Y <sub>1</sub> | 2.7          | Calculation factor               |
| Y <sub>2</sub> | 4.2          | Calculation factor               |

## MASS

|  |         |              |
|--|---------|--------------|
|  | 0.68 kg | Mass bearing |
|--|---------|--------------|