

# W 6007-2RS1 Deep groove ball bearings

- Popular item

## Deep groove ball bearings

### Bearing data

[Tolerances,](#)

Normal (metric), P6, P5, Normal (inch),

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

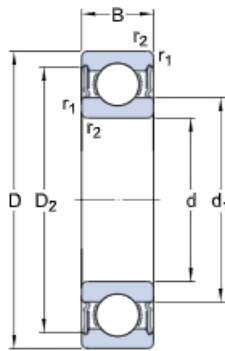
$d < 10$  mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

## Technical specification

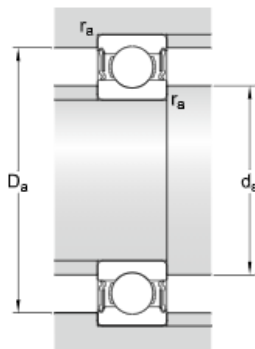


### DIMENSIONS

|           |                    |                   |
|-----------|--------------------|-------------------|
| d         | 35 mm              | Bore diameter     |
| D         | 62 mm              | Outside diameter  |
| B         | 14 mm              | Width             |
| $d_1$     | $\approx 44$ mm    | Shoulder diameter |
| $d_2$     | $\approx 44$ mm    | Recess diameter   |
| $D_2$     | $\approx 57.05$ mm | Recess diameter   |
| $r_{1,2}$ | min. 1 mm          | Chamfer dimension |

### ABUTMENT DIMENSIONS

|                             |                                   |
|-----------------------------|-----------------------------------|
| $d_{\epsilon}$ min. 40 mm   | Diameter of shaft abutment        |
| $d_{\epsilon}$ max. 43.5 mm | Diameter of shaft abutment        |
| $D_{\epsilon}$ max. 57.5 mm | Diameter of housing abutment      |
| $r_a$ max. 1 mm             | Radius of shaft or housing fillet |



## CALCULATION DATA

|                |             |                           |
|----------------|-------------|---------------------------|
| C              | 13.8 kN     | Basic dynamic load rating |
| C <sub>0</sub> | 10.2 kN     | Basic static load rating  |
| P <sub>u</sub> | 0.44 kN     | Fatigue load limit        |
|                | 6 700 r/min | Limiting speed            |
| k <sub>r</sub> | 0.03        | Minimum load factor       |
| f <sub>0</sub> | 14.9        | Calculation factor        |

## MASS

|         |              |
|---------|--------------|
| 0.15 kg | Mass bearing |
|---------|--------------|

## TOLERANCE CLASS

|        |                        |
|--------|------------------------|
| Normal | Dimensional tolerances |
| Normal | Radial run-out         |