

# 209-2ZNR SKF D2 $\approx$ 75.19 mm 85x45x19mm Deep groove ball bearings

|                     |          |
|---------------------|----------|
| Bearing number      | 209-2ZNR |
| Size (mm)           | 85x45x19 |
| Brand               | SKF      |
| Bore Diameter (mm)  | 85       |
| Outer Diameter (mm) | 45       |
| Width (mm)          | 19       |
| d                   | 45 mm    |
| D                   | 85 mm    |
| B                   | 19 mm    |
| $d_1$               | 57.6 mm  |
| $D_2$               | 75.19 mm |
| $D_3$               | 81.81 mm |
| $D_4$               | 91.6 mm  |
| b                   | 1.9 mm   |
| C                   | 3.28 mm  |
| f                   | 1.7 mm   |
| $r_0$               | 0.6 mm   |
| $r_{1,2}$ – min.    | 1.1 mm   |
| $d_a$ – min.        | 52 mm    |
| $d_a$ – max.        | 57.5 mm  |
| $D_a$ – max.        | 78 mm    |
| $D_b$ – min.        | 93 mm    |

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| $b_a$ – min.                                   | 2.2 mm      |
| $C_a$ – max.                                   | 4.98 mm     |
| $r_a$ – max.                                   | 1 mm        |
| Basic dynamic load rating – C                  | 35.2 kN     |
| Basic static load rating – $C_0$               | 30 kN       |
| Fatigue load limit – $P_u$                     | 1.3 kN      |
| Reference speed                                | 14000 r/min |
| Limiting speed                                 | 6800 r/min  |
| Calculation factor minimum radial load – $k_r$ | 0.04        |
| Mass bearing                                   | 0.44 kg     |
| $d_1 \approx$                                  | 57.6 mm     |
| $D_2 \approx$                                  | 75.19 mm    |
| $D_3$  | 81.81 mm    |
| $D_4$  | 91.6 mm     |
| $r_0$ max.                                     | 0.6 mm      |
| $r_{1,2}$ min.                                 | 1.1 mm      |
| $d_a$ min.                                     | 52 mm       |
| $d_a$ max.                                     | 57.5 mm     |
| $D_a$ max.                                     | 78 mm       |
| $D_b$ min.                                     | 93 mm       |
| $b_a$ min.                                     | 2.2 mm      |
| $C_a$ max.                                     | 4.98 mm     |
| $r_a$ max.                                     | 1 mm        |
| Basic dynamic load rating C                    | 35.2 kN     |
| Basic static load rating $C_0$                 | 30 kN       |
| Fatigue load limit $P_u$                       | 1.27 kN     |

|                          |       |
|--------------------------|-------|
| Calculation factor $k_r$ | 0.04  |
| Snap ring                | SP 85 |