

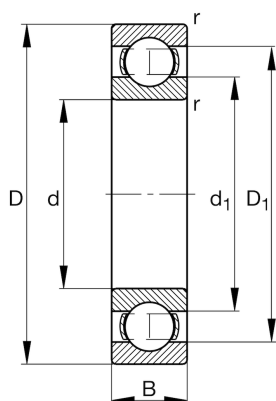
FAG

**6308**

Deep groove ball bearing

Schaeffler ID:  
0167233760000Deep groove ball bearing 63, single row,  
steel sheet metal cage

## Technical information

**Main Dimensions & Performance Data**

|          |              |                                   |
|----------|--------------|-----------------------------------|
| d        | 40 mm        | Bore diameter                     |
| D        | 90 mm        | Outside diameter                  |
| B        | 23 mm        | Width                             |
| $C_r$    | 45,500 N     | Basic dynamic load rating, radial |
| $C_{0r}$ | 25,000 N     | Basic static load rating, radial  |
| $C_{ur}$ | 1,690 N      | Fatigue load limit, radial        |
| $n_G$    | 10,800 1/min | Limiting speed                    |
| $n_{gr}$ | 9,000 1/min  | Reference speed                   |
|          | 0.611 kg     | Weight                            |

**Dimensions**

|           |         |                              |
|-----------|---------|------------------------------|
| $r_{min}$ | 1.5 mm  | Minimum chamfer dimension    |
| $D_1$     | 74.6 mm | Shoulder diameter outer ring |
| $d_1$     | 55.6 mm | Shoulder diameter inner ring |

**Mounting dimensions**

|             |        |                                      |
|-------------|--------|--------------------------------------|
| $d_{a min}$ | 49 mm  | Minimum diameter shaft shoulder      |
| $D_{a max}$ | 81 mm  | Maximum diameter of housing shoulder |
| $r_{a max}$ | 1.5 mm | Maximum fillet radius                |

**Calculation factors**

|       |    |                    |
|-------|----|--------------------|
| $f_0$ | 13 | Calculation factor |
|-------|----|--------------------|

**Temperature range**

|           |        |                            |
|-----------|--------|----------------------------|
| $T_{min}$ | -30 °C | Operating temperature min. |
| $T_{max}$ | 120 °C | Operating temperature max. |