

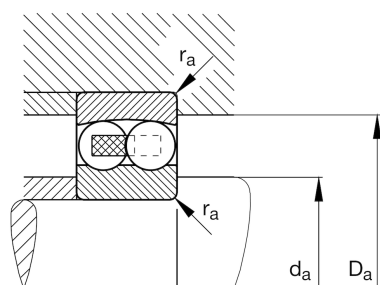
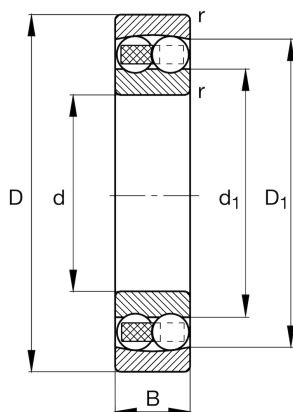
FAG

**1318-M**

Self-aligning ball bearing

Schaeffler ID:  
0167008990000Self-aligning ball bearing 13..-M, solid  
brass cage

## Technical information

**Temperature range**

|            |          |                            |
|------------|----------|----------------------------|
| $T_{\min}$ | -30 °C   | Operating temperature min. |
| $T_{\max}$ | 150 °C   | Operating temperature max. |
|            | 6,132 kg | Weight                     |

**Main Dimensions & Performance Data**

|                   |             |                                   |
|-------------------|-------------|-----------------------------------|
| d                 | 90 mm       | Bore diameter                     |
| D                 | 190 mm      | Outside diameter                  |
| B                 | 43 mm       | Width                             |
| $r_{\min}$        | 3 mm        | Minimum chamfer dimension         |
| $C_r$             | 109.000 N   | Basic dynamic load rating, radial |
| $C_{0r}$          | 43.000 N    | Basic static load rating, radial  |
| $C_{ur}$          | 2.300 N     | Fatigue load limit, radial        |
| $n_G$             | 5.500 1/min | Limiting speed                    |
| $n_{\vartheta r}$ | 4.200 1/min | Reference speed                   |

**Dimensions**

|       |          |                              |
|-------|----------|------------------------------|
| $D_1$ | 159,8 mm | Shoulder diameter outer ring |
| $d_1$ | 124,4 mm | Shoulder diameter inner ring |

**Mounting dimensions**

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 104 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 176 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2,5 mm | Maximum fillet radius                |

**Calculation factors**

|       |      |   |
|-------|------|---|
| e     | 0,22 | Limiting value of $F_a/F_r$ for the applicability of<br>diff. Values of factors X and Y |
| $Y_1$ | 2,84 | Dynamic axial load factor   |
| $Y_2$ | 4,4  | Dynamic axial load factor   |
| $Y_0$ | 2,98 | Static axial load factor  |