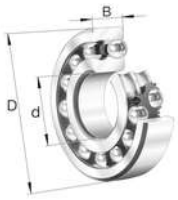
SCHAEFFLER




FAG

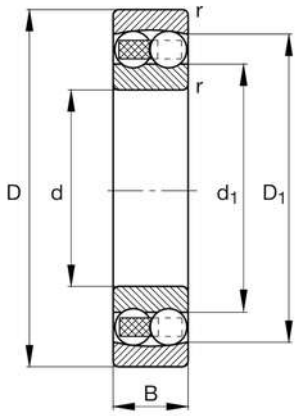
# 2308-TVH-C3

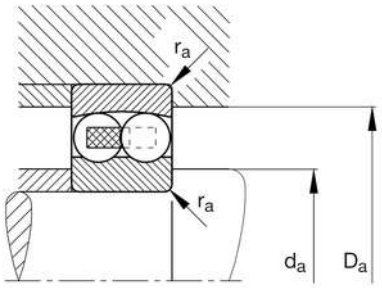
Self-aligning ball bearing

Schaeffler ID:
0167073380030

Self-aligning ball bearing 23..-TVH, plastic cage

## Technical information




### Main Dimensions & Performance Data

| | | |
|---|---|---|
| d | 40 mm | Bore diameter |
| D | 90 mm | Outside diameter |
| B | 33 mm | Width |
| $C_r$ | 46.000 N | Basic dynamic load rating, radial |
| $C_{0r}$ | 13.500 N | Basic static load rating, radial |
| $C_{ur}$ | 860 N | Fatigue load limit, radial |
| $n_G$ | 7.900 1/min | Limiting speed |
| $n_{\vartheta r}$ | 8.700 1/min | Reference speed |
| | 0,925 kg | Weight |

### 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 |

### Dimensions

| | | |
|---|---|---|
| $r_{min}$ | 1,5 mm | Minimum chamfer dimension |
| $D_1$ | 74,5 mm | Shoulder diameter outer ring |
| $d_1$ | 53,7 mm | Shoulder diameter inner ring |

### Temperature range

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

### Calculation factors

| | | |
|---|---|---|
| e | 0,43 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 1,46 | Dynamic axial load factor |
| $Y_2$ | 2,25 | Dynamic axial load factor |
| $Y_0$ | 1,52 | Static axial load factor |

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product. For further information you can use the contact form on our website.