



FAG

2308-TVH

Self-aligning ball bearing

Schaeffler ID:
0167073380000Self-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 |
| r_{\min} | 1.5 mm | Minimum chamfer dimension |
| 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_{gr} | 8,700 1/min | Reference speed |
| | 0.925 kg | Weight |

Dimensions

| | | |
|-------|---------|------------------------------|
| D_1 | 74.5 mm | Shoulder diameter outer ring |
| d_1 | 53.7 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

| | | |
|-------|------|---|
| e | 0.43 | Limiting value of F_a/F_r 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 |

Temperature range

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