

FAG

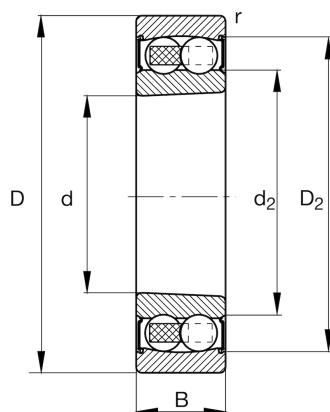
★ 2209-K-2RS-TVH-C3

Self-aligning ball bearing

Schaeffler ID:
0384725890030Self-aligning ball bearing 22...-K-2RS-TVH,
tapered bore taper 1:12, seals, plastic
cage

★ Preferred product

Technical information



Main Dimensions & Performance Data

| | | |
|------------|-------------|-----------------------------------|
| d | 45 mm | Bore diameter |
| D | 85 mm | Outside diameter |
| B | 23 mm | Width |
| r_{\min} | 1,1 mm | Minimum chamfer dimension |
| C_r | 22.000 N | Basic dynamic load rating, radial |
| C_{0r} | 7.300 N | Basic static load rating, radial |
| C_{ur} | 465 N | Fatigue load limit, radial |
| n_G | 4.650 1/min | Limiting speed |
| | 0,527 kg | Weight |

Dimensions

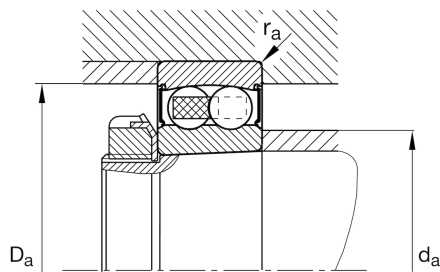
| | | |
|-------|---------|-----------------------------|
| | H309 | Adapter sleeve |
| D_2 | 76 mm | Caliber diameter outer ring |
| d_2 | 53,8 mm | Caliber diameter inner ring |

Mounting dimensions

| | | |
|-------------|-------|---------------------------------------|
| $d_{a\min}$ | 52 mm | Minimum diameter shaft shoulder |
| $d_{a\max}$ | 57 mm | Maximum diameter shaft shoulder |
| $D_{a\max}$ | 78 mm | Maximum diameter of housing shoulder |
| $d_{b\min}$ | 48 mm | Minimum cavity diameter of the sleeve |
| $B_{a\min}$ | 5 mm | Minimum cavity width of the sleeve |
| $r_{a\max}$ | 1 mm | Maximum fillet radius |

Calculation factors

| | | |
|-------|------|---|
| e | 0,21 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 3,03 | Dynamic axial load factor |
| Y_2 | 4,68 | Dynamic axial load factor |
| Y_0 | 3,17 | Static axial load factor |



Temperature range

| | | |
|------------------|--------|----------------------------|
| T _{min} | -20 °C | Operating temperature min. |
| T _{max} | 100 °C | Operating temperature max. |