

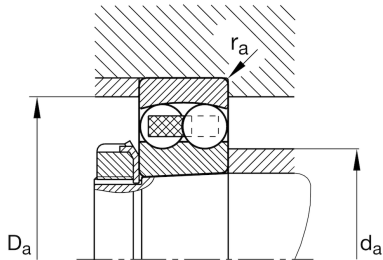
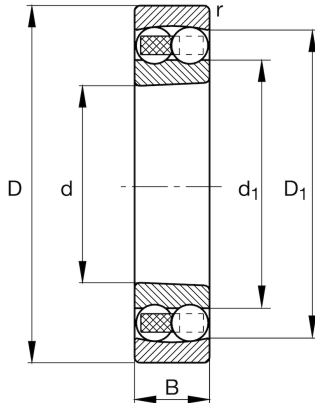
FAG

2205-K-TVH-C3

Self-aligning ball bearing

Schaeffler ID:
0389040040030Self-aligning ball bearing 22..-K-TVH,
tapered bore taper 1:12, plastic cage

Technical information

**Main Dimensions & Performance Data**

| | | |
|------------|--------------|-----------------------------------|
| d | 25 mm | Bore diameter |
| D | 52 mm | Outside diameter |
| B | 18 mm | Width |
| r_{\min} | 1 mm | Minimum chamfer dimension |
| C_r | 17,300 N | Basic dynamic load rating, radial |
| C_{0r} | 4,450 N | Basic static load rating, radial |
| C_{ur} | 285 N | Fatigue load limit, radial |
| n_G | 14,400 1/min | Limiting speed |
| n_{gr} | 13,400 1/min | Reference speed |
| | 0.149 kg | Weight |

Dimensions

| | | |
|-------|---------|------------------------------|
| D_1 | 44.4 mm | Shoulder diameter outer ring |
| d_1 | 32.3 mm | Shoulder diameter inner ring |

Mounting dimensions

| | | |
|-------------|---------|---------------------------------------|
| $d_{a\min}$ | 30.6 mm | Minimum diameter shaft shoulder |
| $d_{a\max}$ | 32 mm | Maximum diameter shaft shoulder |
| $D_{a\max}$ | 46.4 mm | Maximum diameter of housing shoulder |
| $d_{b\min}$ | 28 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 | 0.35 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| | H305 | Adapter sleeve |
| Y_1 | 1.78 | Dynamic axial load factor |
| Y_2 | 2.75 | Dynamic axial load factor |
| Y_0 | 1.86 | Static axial load factor |

Temperature range

| | | |
|------------------|--------|----------------------------|
| T _{min} | -30 °C | Operating temperature min. |
| T _{max} | 120 °C | Operating temperature max. |