

FAG

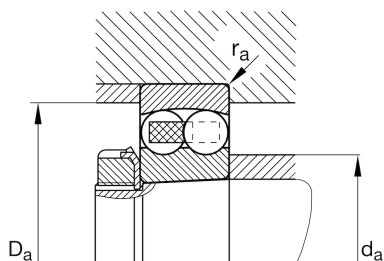
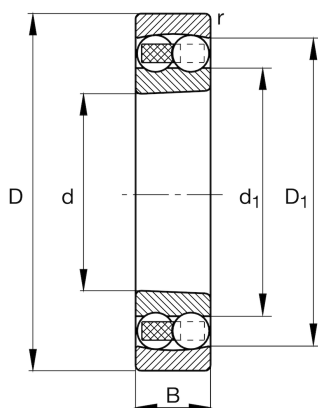
★ 1307-K-TVH-C3

Self-aligning ball bearing

Schaeffler ID:
0389035390030Self-aligning ball bearing 13...-K-TVH,
tapered bore taper 1:12, plastic cage

★ Preferred product

Technical information



Main Dimensions & Performance Data

| | | |
|------------|-------------|-----------------------------------|
| d | 35 mm | Bore diameter |
| D | 80 mm | Outside diameter |
| B | 21 mm | Width |
| r_{\min} | 1,5 mm | Minimum chamfer dimension |
| C_r | 25.500 N | Basic dynamic load rating, radial |
| C_{0r} | 7.900 N | Basic static load rating, radial |
| C_{ur} | 500 N | Fatigue load limit, radial |
| n_G | 9.700 1/min | Limiting speed |
| n_{gr} | 7.800 1/min | Reference speed |
| | 0,494 kg | Weight |

Dimensions

| | | |
|-------|---------|------------------------------|
| D_1 | 70,1 mm | Shoulder diameter outer ring |
| d_1 | 51,3 mm | Shoulder diameter inner ring |

Mounting dimensions

| | | |
|-------------|--------|---------------------------------------|
| $d_{a\min}$ | 44 mm | Minimum diameter shaft shoulder |
| $d_{a\max}$ | 49 mm | Maximum diameter shaft shoulder |
| $D_{a\max}$ | 71 mm | Maximum diameter of housing shoulder |
| $d_{b\min}$ | 39 mm | Minimum cavity diameter of the sleeve |
| $B_{a\min}$ | 8 mm | Minimum cavity width of the sleeve |
| $r_{a\max}$ | 1,5 mm | Maximum fillet radius |

Calculation factors

| | | |
|-------|------|--|
| e | 0,26 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 2,46 | Dynamic axial load factor |
| Y_2 | 3,8 | Dynamic axial load factor |
| Y_0 | 2,57 | Static axial load factor |

Temperature range

| | | |
|------------------|--------|----------------------------|
| T _{min} | -30 °C | Operating temperature min. |
| | H307 | Adapter sleeve |
| T _{max} | 120 °C | Operating temperature max. |