

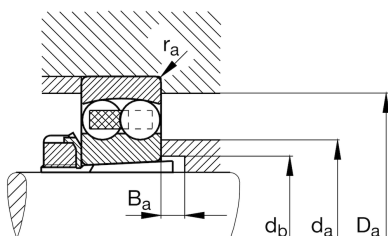
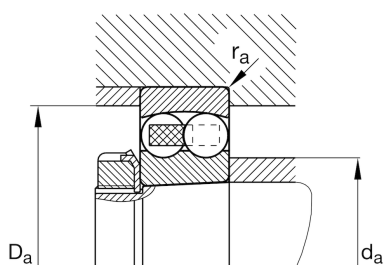
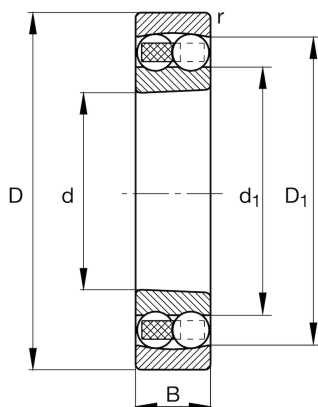
FAG

1309-K-TVH-C3

Self-aligning ball bearing

Schaeffler ID:
0389035630030Self-aligning ball bearing 13.-K-TVH,
tapered bore taper 1:12, plastic cage

Technical information

**Dimensions**

| | | |
|-------|----------|------------------------------|
| D_1 | 83,5 mm | Shoulder diameter outer ring |
| d_1 | 64,1 mm | Shoulder diameter inner ring |
| | 0,941 kg | Weight |

Main Dimensions & Performance Data

| | | |
|------------|-------------|-----------------------------------|
| d | 45 mm | Bore diameter |
| D | 100 mm | Outside diameter |
| B | 25 mm | Width |
| r_{\min} | 1,5 mm | Minimum chamfer dimension |
| C_r | 38.500 N | Basic dynamic load rating, radial |
| C_{0r} | 12.700 N | Basic static load rating, radial |
| C_{ur} | 810 N | Fatigue load limit, radial |
| n_G | 7.500 1/min | Limiting speed |
| n_{gr} | 6.700 1/min | Reference speed |

Mounting dimensions

| | | |
|--------------|--------|---------------------------------------|
| $d_{a \min}$ | 54 mm | Minimum diameter shaft shoulder |
| $d_{a \max}$ | 61 mm | Maximum diameter shaft shoulder |
| $D_{a \max}$ | 91 mm | Maximum diameter of housing shoulder |
| $d_{b \min}$ | 50 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 5 mm | Minimum cavity width of the sleeve |
| $r_{a \max}$ | 1,5 mm | Maximum fillet radius |

Calculation factors

| | | |
|-------|------|--|
| e | 0,25 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 2,51 | Dynamic axial load factor |
| Y_2 | 3,88 | Dynamic axial load factor |
| Y_0 | 2,63 | Static axial load factor |

Additional information

H309

Adapter sleeve

Temperature range

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