

FAG

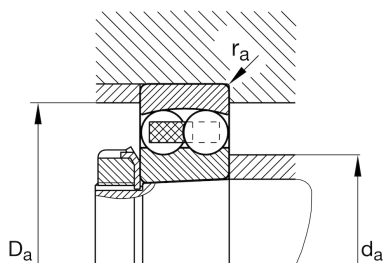
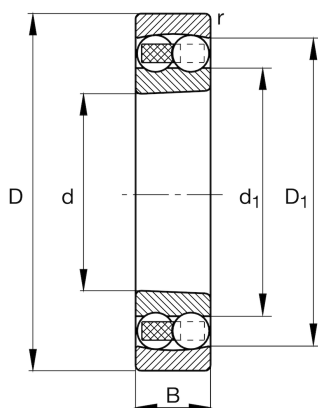
★ 1316-K-M-C3

Self-aligning ball bearing

Schaeffler ID:
0384371390030Self-aligning ball bearing 13..-K-M, tapered
bore taper 1:12, solid brass cage

★ Preferred product

Technical information



Temperature range

| | | |
|------------|----------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 150 °C | Operating temperature max. |
| | 4,359 kg | Weight |

Main Dimensions & Performance Data

| | | |
|------------|-------------|-----------------------------------|
| d | 80 mm | Bore diameter |
| D | 170 mm | Outside diameter |
| B | 39 mm | Width |
| r_{\min} | 2,1 mm | Minimum chamfer dimension |
| C_r | 89.000 N | Basic dynamic load rating, radial |
| C_{0r} | 33.000 N | Basic static load rating, radial |
| C_{ur} | 1.870 N | Fatigue load limit, radial |
| n_G | 6.200 1/min | Limiting speed |
| n_{gr} | 4.500 1/min | Reference speed |

Dimensions

| | | |
|-------|----------|------------------------------|
| D_1 | 144,3 mm | Shoulder diameter outer ring |
| d_1 | 110,6 mm | Shoulder diameter inner ring |

Mounting dimensions

| | | |
|--------------|--------|---------------------------------------|
| $d_{a \min}$ | 92 mm | Minimum diameter shaft shoulder |
| $d_{a \max}$ | 107 mm | Maximum diameter shaft shoulder |
| $D_{a \max}$ | 158 mm | Maximum diameter of housing shoulder |
| $d_{b \min}$ | 85 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 5 mm | Minimum cavity width of the sleeve |
| $r_{a \max}$ | 2,1 mm | Maximum fillet radius |

Calculation factors

| | | |
|----------------|------|--|
| e | 0,22 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| | H316 | Adapter sleeve |
| Y ₁ | 2,88 | Dynamic axial load factor |
| Y ₂ | 4,46 | Dynamic axial load factor |
| Y ₀ | 3,02 | Static axial load factor |