

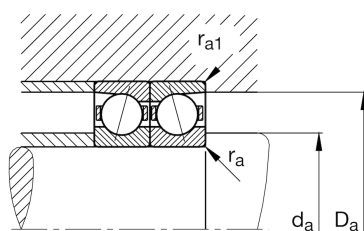
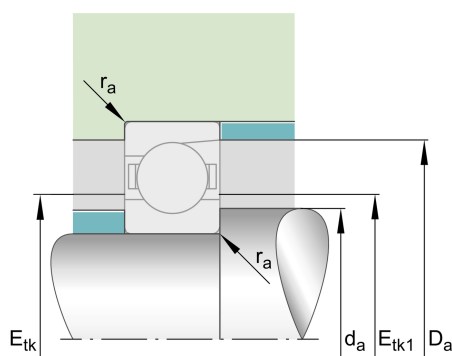
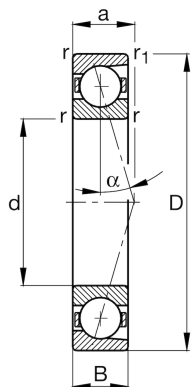
FAG

B7009-C-T-P4S-UL

Spindle bearing

Schaeffler ID:
0167275330000Spindle bearings B70...-C, adjusted, in pairs or sets, contact angle $\alpha = 15^\circ$, restricted tolerances

Technical information

**Main Dimensions & Performance Data**

| | | |
|------------------------|--------------|---------------------------------------|
| d | 45 mm | Bore diameter |
| D | 75 mm | Outside diameter |
| B | 16 mm | Width |
| C_r | 28.000 N | Basic dynamic load rating, radial |
| C_{0r} | 14.900 N | Basic static load rating, radial |
| C_{ur} | 1.580 N | Fatigue load limit, radial |
| $n_{G \text{ Grease}}$ | 19.000 1/min | Limiting speed for grease lubrication |
| $n_{G \text{ Oil}}$ | 30.000 1/min | Limiting speed for oil lubrication |
| | 0,232 kg | Weight |

Dimensions

| | | |
|--------------|------------|---------------------------|
| r_{\min} | 1 mm | Minimum chamfer dimension |
| $r_{1 \min}$ | 1 mm | Minimum chamfer dimension |
| α | 15° | Contact angle |

Mounting dimensions

| | | |
|----------------|---------|---|
| d_a | 51 mm | Diameter shaft shoulder |
| d_a | h12 | Diameter shaft shoulder clearance |
| D_a | 69 mm | Shoulder diameter outer ring |
| D_a | H12 | Shoulder diameter outer ring clearance |
| $r_{a \max}$ | 1 mm | Maximum recess radius |
| $r_{a1 \max}$ | 0,3 mm | Maximum recess radius |
| $E_{tk \min}$ | 54,3 mm | Minimum diameter injection pitch |
| $E_{tk \max}$ | 57,3 mm | Maximum diameter injection pitch |
| $E_{tk1 \min}$ | 54,3 mm | Minimum diameter injection pitch |
| $E_{tk1 \max}$ | 57,3 mm | Maximum diameter injection pitch |
| a | 16 mm | Distance between the apexes of the pressure cones |

Additional information

| | | |
|-----------|-----------------------|-----------------------|
| F_{VL} | 144 N | Preload force light |
| F_{VM} | 476 N | Preload force medium |
| F_{VH} | 958 N | Preload force heavy |
| K_{aEL} | 445 N | Lift-off force light |
| K_{aEM} | 1.606 N | Lift-off force medium |
| K_{aEH} | 3.461 N | Lift-off force heavy |
| c_{aL} | 49,8 N/ μm | Axial rigidity light |
| c_{aM} | 86,3 N/ μm | Axial rigidity medium |
| c_{aH} | 124 N/ μm | Axial rigidity heavy |