



FAG

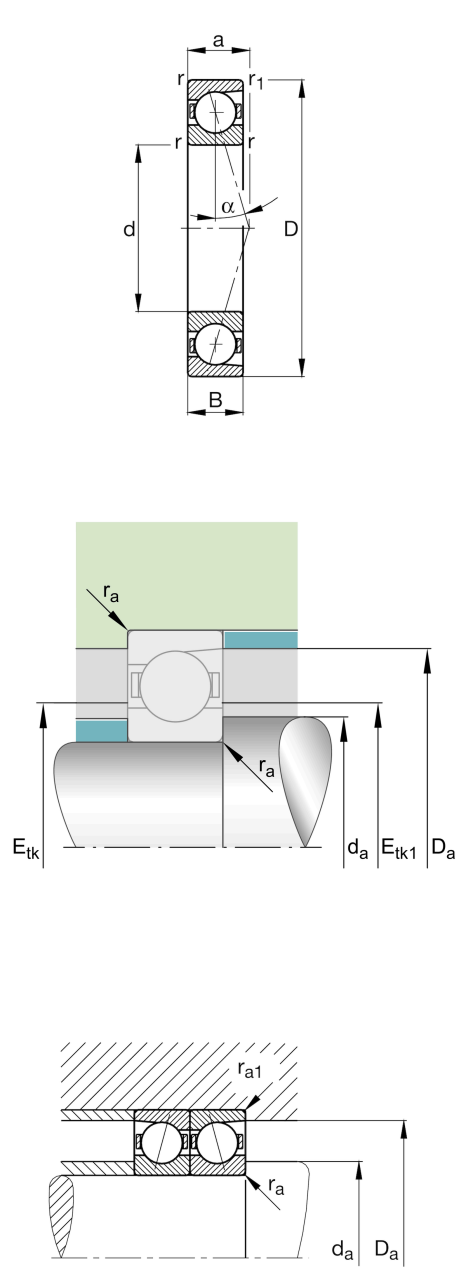
B7022-C-T-P4S-UL

Spindle bearing

Schaeffler ID:
0191526040000

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

Technical information



Main Dimensions & Performance Data

| | | |
|-----------------------|----------------|---------------------------------------|
| d | 4,331 in | Bore diameter |
| D | 6,693 in | Outside diameter |
| B | 1,102 in | Width |
| C _r | 25.179,856 lbf | Basic dynamic load rating, radial |
| C _{0r} | 17.311,151 lbf | Basic static load rating, radial |
| C _{ur} | 1.551,259 lbf | Fatigue load limit, radial |
| n _{G Grease} | 8.000 1/min | Limiting speed for grease lubrication |
| n _{G Oil} | 12.000 1/min | Limiting speed for oil lubrication |
| | 4,37 lbs | {Weight} |

Mounting dimensions

| | | |
|----------------------|----------|---|
| d _a | 4,764 in | Diameter shaft shoulder |
| d _a | h12 | Diameter shaft shoulder clearance |
| D _a | 6,26 in | Shoulder diameter outer ring |
| D _a | H12 | Shoulder diameter outer ring clearance |
| r _{a max} | 0,079 in | Maximum recess radius |
| r _{a1 max} | 0,039 in | Maximum recess radius |
| E _{tk min} | 5,063 in | Minimum diameter injection pitch |
| E _{tk max} | 5,319 in | Maximum diameter injection pitch |
| E _{tk1 min} | 5,063 in | Minimum diameter injection pitch |
| E _{tk1 max} | 5,319 in | Maximum diameter injection pitch |
| a | 1,291 in | Distance between the apexes of the pressure cones |

Dimensions

| | | |
|--------------------|----------|---------------------------|
| r _{min} | 0,079 in | Minimum chamfer dimension |
| r _{1 min} | 0,079 in | Minimum chamfer dimension |
| α | 15 ° | Contact angle |

Temperature range

| | | |
|------------------|--------|----------------------------|
| T _{min} | -22 °F | Operating temperature min. |
| T _{max} | 212 °F | Operating temperature max. |

Additional information

| | | |
|------------------|---------------|-----------------------|
| F _{VL} | 144,559 lbf | Preload force light |
| F _{VM} | 457,059 lbf | Preload force medium |
| F _{VH} | 910,971 lbf | Preload force heavy |
| K _{aEL} | 445,369 lbf | Lift-off force light |
| K _{aEM} | 1.519,11 lbf | Lift-off force medium |
| K _{aEH} | 3.230,665 lbf | Lift-off force heavy |
| c _{aL} | 119 N/μm | Axial rigidity light |
| c _{aM} | 200 N/μm | Axial rigidity medium |
| c _{aH} | 283 N/μm | Axial rigidity heavy |