

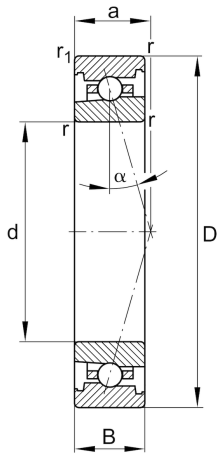
FAG

**HS71920-C-T-P4S-UL**

Angular contact ball bearing

Spindle bearings HS719...-C, adjusted, in pairs or sets, contact angle  $\alpha = 15^\circ$ , restricted tolerances

## Technical information



## Main Dimensions &amp; Performance Data

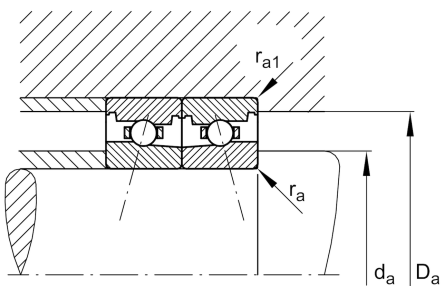
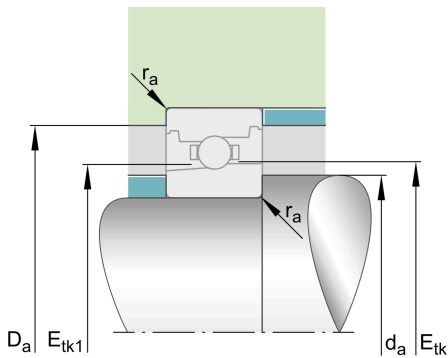
|                        |              |                                       |
|------------------------|--------------|---------------------------------------|
| d                      | 100 mm       | Bore diameter                         |
| D                      | 140 mm       | Outside diameter                      |
| B                      | 20 mm        | Width                                 |
| $C_r$                  | 28.500 N     | Basic dynamic load rating, radial     |
| $C_{0r}$               | 23.500 N     | Basic static load rating, radial      |
| $C_{ur}$               | 2.270 N      | Fatigue load limit, radial            |
| $n_{G \text{ Grease}}$ | 13.000 1/min | Limiting speed for grease lubrication |
| $n_{G \text{ Oil}}$    | 20.000 1/min | Limiting speed for oil lubrication    |
| $\approx m$            | 0,824 kg     | Weight                                |

## Mounting dimensions

|                       |          |   |
|-----------------------|----------|---|
| $d_a$                 | 107 mm   | Diameter shaft shoulder                           |
| $d_a$                 | h12      | Diameter shaft shoulder clearance                 |
| $D_a$                 | 133 mm   | Shoulder diameter outer ring                      |
| $D_a$                 | H12      | Shoulder diameter outer ring clearance            |
| $r_{a \text{ max}}$   | 0,6 mm   | Maximum recess radius                             |
| $r_{a1 \text{ max}}$  | 0,6 mm   | Maximum recess radius                             |
| $E_{tk \text{ min}}$  | 115,2 mm | Minimum diameter injection pitch                  |
| $E_{tk \text{ max}}$  | 116,9 mm | Maximum diameter injection pitch                  |
| $E_{tk1 \text{ min}}$ | 112,3 mm | Minimum diameter injection pitch                  |
| $E_{tk1 \text{ max}}$ | 116,9 mm | Maximum diameter injection pitch                  |
| a                     | 26,1 mm  | Distance between the apexes of the pressure cones |

## Dimensions

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





### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 100 °C | Operating temperature max. |

### Additional information

|           |          |                       |
|-----------|----------|-----------------------|
| $F_{VL}$  | 97 N     | Preload force light   |
| $F_{VM}$  | 291 N    | Preload force medium  |
| $F_{VH}$  | 583 N    | Preload force heavy   |
| $K_{aEL}$ | 289 N    | Lift-off force light  |
| $K_{aEM}$ | 906 N    | Lift-off force medium |
| $K_{aEH}$ | 1.883 N  | Lift-off force heavy  |
| $c_{aL}$  | 65 N/μm  | Axial rigidity light  |
| $c_{aM}$  | 101 N/μm | Axial rigidity medium |
| $c_{aH}$  | 137 N/μm | Axial rigidity heavy  |