

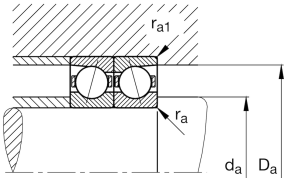
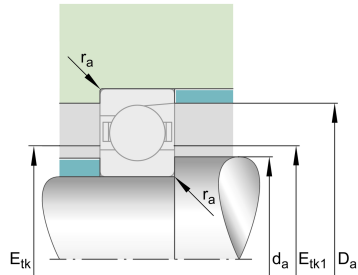
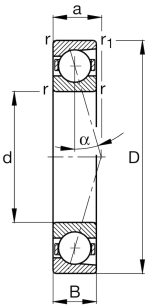
FAG

**B71905-C-T-P4S-UL**

Spindle bearing

Spindle bearing B719...-C, adjusted, in pairs or sets, contact angle  $\alpha = 15^\circ$ , restricted tolerances

Technical information



Your current product variant

|                         |         |                                                                  |
|-------------------------|---------|------------------------------------------------------------------|
| Preload                 | L       | Preload light                                                    |
| Contact angle           | C       | Contact angle 15°                                                |
| Tolerance class         | P4S     | Tolerance class P4S, FAG standard better than P4 to ISO 492:2023 |
| Sealing                 | Without | Not sealed                                                       |
| Cage                    | T       | Laminated fabric cage                                            |
| Arrangement bearing set | U       | Single bearing                                                   |

Main Dimensions & Performance Data

|                       |              |                                       |
|-----------------------|--------------|---------------------------------------|
| d                     | 25 mm        | Bore diameter                         |
| D                     | 42 mm        | Outside diameter                      |
| B                     | 9 mm         | Width                                 |
| C <sub>r</sub>        | 8.000 N      | Basic dynamic load rating, radial     |
| C <sub>0r</sub>       | 3.800 N      | Basic static load rating, radial      |
| C <sub>ur</sub>       | 400 N        | Fatigue load limit, radial            |
| n <sub>G Grease</sub> | 36.000 1/min | Limiting speed for grease lubrication |
| n <sub>G Oil</sub>    | 56.000 1/min | Limiting speed for oil lubrication    |
| ≈m                    | 43,93 g      | Weight                                |



### Mounting dimensions

|                |         |                                                   |
|----------------|---------|---------------------------------------------------|
| $d_a$          | 29 mm   | Diameter shaft shoulder                           |
| $d_a$          | h12     | Diameter shaft shoulder clearance                 |
| $D_a$          | 38,5 mm | Shoulder diameter outer ring                      |
| $D_a$          | H12     | Shoulder diameter outer ring clearance            |
| $r_{a \max}$   | 0,3 mm  | Maximum recess radius                             |
| $r_{a1 \max}$  | 0,15 mm | Maximum recess radius                             |
| $E_{tk \min}$  | 31 mm   | Minimum diameter injection pitch                  |
| $E_{tk \max}$  | 32 mm   | Maximum diameter injection pitch                  |
| $E_{tk1 \min}$ | 31 mm   | Minimum diameter injection pitch                  |
| $E_{tk1 \max}$ | 32 mm   | Maximum diameter injection pitch                  |
| $a$            | 9 mm    | Distance between the apexes of the pressure cones |

### Dimensions

|              |        |                           |
|--------------|--------|---------------------------|
| $r_{\min}$   | 0,3 mm | Minimum chamfer dimension |
| $r_{1 \min}$ | 0,3 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

|           |         |                       |
|-----------|---------|-----------------------|
| $F_{VL}$  | 34 N    | Preload force light   |
| $F_{VM}$  | 127 N   | Preload force medium  |
| $F_{VH}$  | 265 N   | Preload force heavy   |
| $K_{aEL}$ | 102 N   | Lift-off force light  |
| $K_{aEM}$ | 418 N   | Lift-off force medium |
| $K_{aEH}$ | 934 N   | Lift-off force heavy  |
| $c_{aL}$  | 25 N/μm | Axial rigidity light  |
| $c_{aM}$  | 45 N/μm | Axial rigidity medium |
| $c_{aH}$  | 66 N/μm | Axial rigidity heavy  |

Characteristics

- 

Radial load
- 

Axial load in one direction
- 

Grease Lubrication
- 

Oil Lubrication
- 

Not sealed