



FAG

B71909-C-2RSD-T-P4S-UL

Spindle bearing

Spindle bearing B719.-C-2RSD, adjusted, in pairs or sets, contact angle  $\alpha = 15^\circ$ , lip seals on both sides, non-contact, restricted tolerances

Informacje techniczne



Twoja aktualna wersja produktu

|                         |      |                                                                  |
|-------------------------|------|------------------------------------------------------------------|
| Preload class           | L    | Preload light                                                    |
| Contact angle           | C    | Contact angle 15°                                                |
| Tolerance class         | P4S  | Tolerance class P4S, FAG standard better than P4 to ISO 492:2023 |
| Cage                    | T    | Laminated fabric cage                                            |
| Arrangement bearing set | U    | Single bearing                                                   |
| Lubricant               | GA21 | Grease for super precision bearings, standard                    |

Main Dimensions & Performance Data

|                       |              |                                       |
|-----------------------|--------------|---------------------------------------|
| d                     | 45 mm        | Bore diameter                         |
| D                     | 68 mm        | Outside diameter                      |
| B                     | 12 mm        | Width                                 |
| C <sub>r</sub>        | 19.100 N     | Basic dynamic load rating, radial     |
| C <sub>0r</sub>       | 11.200 N     | Basic static load rating, radial      |
| C <sub>ur</sub>       | 1.180 N      | Fatigue load limit, radial            |
| n <sub>G Grease</sub> | 20.000 1/min | Limiting speed for grease lubrication |
| ≈m                    | 126,27 g     | Masa                                  |



### Mounting dimensions

|               |         |                                                   |
|---------------|---------|---------------------------------------------------|
| $d_a$         | 50 mm   | Diameter shaft shoulder                           |
| $d_a$         | h12     | Diameter shaft shoulder clearance                 |
| $D_a$         | 63,5 mm | Shoulder diameter outer ring                      |
| $D_a$         | H12     |                                                   |
| $r_{a \max}$  | 0,6 mm  | Maximum recess radius                             |
| $r_{a1 \max}$ | 0,15 mm | Maximum recess radius                             |
| $a$           | 13,6 mm | Distance between the apexes of the pressure cones |

### Dimensions

|              |        |                           |
|--------------|--------|---------------------------|
| $r_{\min}$   | 0,6 mm | Minimum chamfer dimension |
| $r_{1 \min}$ | 0,6 mm | Minimum chamfer dimension |
| $\alpha$     | 15 °   | Contact angle             |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 80 °C  | Operating temperature max. |

### Additional information

|           |          |                       |
|-----------|----------|-----------------------|
| $F_{VL}$  | 88 N     | Preload force light   |
| $F_{VM}$  | 307 N    | Preload force medium  |
| $F_{VH}$  | 628 N    | Preload force heavy   |
| $K_{aEL}$ | 270 N    | Lift-off force light  |
| $K_{aEM}$ | 1.027 N  | Lift-off force medium |
| $K_{aEH}$ | 2.251 N  | Lift-off force heavy  |
| $c_{aL}$  | 44 N/μm  | Axial rigidity light  |
| $c_{aM}$  | 78 N/μm  | Axial rigidity medium |
| $c_{aH}$  | 112 N/μm | Axial rigidity heavy  |



### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie dożywotnie, bezobsługowe



Smarowanie smarem



Uszczelnienie dwustronne