



FAG

HSS71910-E-T-P4S-UL

High speed spindle bearing

High speed spindle bearing HSS719...-E, adjusted, in pairs or sets, contact angle  $\alpha = 25^\circ$ , lip seals on both sides, non-contact, restricted tolerances

Informacje techniczne



Twoja aktualna wersja produktu

|                         |      |                                                                  |
|-------------------------|------|------------------------------------------------------------------|
| Contact angle           | E    | Contact angle $25^\circ$                                         |
| Sealing                 | 2RSD | Non-contact sealed on both sides and greased "for life"          |
| Cage                    | T    | Laminated fabric cage                                            |
| Tolerance class         | P4S  | Tolerance class P4S, FAG standard better than P4 to ISO 492:2023 |
| Arrangement bearing set | U    | Single bearing                                                   |
| Preload                 | L    | Preload light                                                    |
| Lubricant               | GA21 | Grease for super precision bearings, standard                    |

Main Dimensions & Performance Data

|                       |              |                                       |
|-----------------------|--------------|---------------------------------------|
| d                     | 50 mm        | Bore diameter                         |
| D                     | 72 mm        | Outside diameter                      |
| B                     | 12 mm        | Width                                 |
| C <sub>r</sub>        | 9.400 N      | Basic dynamic load rating, radial     |
| C <sub>0r</sub>       | 6.100 N      | Basic static load rating, radial      |
| C <sub>ur</sub>       | 650 N        | Fatigue load limit, radial            |
| n <sub>G</sub> Grease | 24.000 1/min | Limiting speed for grease lubrication |
| n <sub>G</sub>        | 36.000 1/min | Limiting speed                        |
| m                     | 0,146 kg     | Masa                                  |



### Mounting dimensions

|               |         |                                                   |
|---------------|---------|---------------------------------------------------|
| $d_a$         | 55 mm   | Diameter shaft shoulder                           |
| $d_a$         | h12     | Diameter shaft shoulder clearance                 |
| $D_a$         | 67,5 mm | Shoulder diameter outer ring                      |
| $D_a$         | H12     | Shoulder diameter outer ring clearance            |
| $r_{a \max}$  | 0,6 mm  | Maximum recess radius                             |
| $r_{a1 \max}$ | 0,15 mm | Maximum recess radius                             |
| $a$           | 20,2 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 |
| $\alpha$     | 25 °   | Contact angle             |

### Temperature range

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

### Additional information

|           |          |                       |
|-----------|----------|-----------------------|
| $F_{VL}$  | 56 N     | Preload force light   |
| $F_{VM}$  | 169 N    | Preload force medium  |
| $F_{VH}$  | 338 N    | Preload force heavy   |
| $K_{aEL}$ | 163 N    | Lift-off force light  |
| $K_{aEM}$ | 497 N    | Lift-off force medium |
| $K_{aEH}$ | 1.014 N  | Lift-off force heavy  |
| $c_{aL}$  | 82 N/μm  | Axial rigidity light  |
| $c_{aM}$  | 122 N/μm | Axial rigidity medium |
| $c_{aH}$  | 159 N/μm | Axial rigidity heavy  |



### Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Smarowanie dożywotnie, bezobsługowe
-  Smarowanie smarem
-  Uszczelnienie dwustronne