



FAG

HSS71900-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                     | 10 mm         | Bore diameter                         |
| D                     | 22 mm         | Outside diameter                      |
| B                     | 6 mm          | Width                                 |
| C <sub>r</sub>        | 1.700 N       | Basic dynamic load rating, radial     |
| C <sub>0r</sub>       | 620 N         | Basic static load rating, radial      |
| C <sub>ur</sub>       | 66 N          | Fatigue load limit, radial            |
| n <sub>G</sub> Grease | 95.000 1/min  | Limiting speed for grease lubrication |
| n <sub>G</sub>        | 140.000 1/min | Limiting speed                        |
| ≈m                    | 12 g          | Masa                                  |



Mounting dimensions

|                     |         |                                                   |
|---------------------|---------|---------------------------------------------------|
| d <sub>a</sub>      | 13 mm   | Diameter shaft shoulder                           |
| d <sub>a</sub>      | h12     | Diameter shaft shoulder clearance                 |
| D <sub>a</sub>      | 19,5 mm | Shoulder diameter outer ring                      |
| D <sub>a</sub>      | H12     | Shoulder diameter outer ring clearance            |
| r <sub>a max</sub>  | 0,3 mm  | Maximum recess radius                             |
| r <sub>a1 max</sub> | 0,1 mm  | Maximum recess radius                             |
| a                   | 6,7 mm  | Distance between the apexes of the pressure cones |

Dimensions

|                    |        |                           |
|--------------------|--------|---------------------------|
| r <sub>min</sub>   | 0,3 mm | Minimum chamfer dimension |
| r <sub>1 min</sub> | 0,3 mm | Minimum chamfer dimension |
| α                  | 25 °   | Contact angle             |

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 80 °C  | Operating temperature max. |

Additional information

|                   |         |                       |
|-------------------|---------|-----------------------|
| F <sub>V L</sub>  | 11 N    | Preload force light   |
| F <sub>V M</sub>  | 32 N    | Preload force medium  |
| F <sub>V H</sub>  | 64 N    | Preload force heavy   |
| K <sub>aE L</sub> | 31 N    | Lift-off force light  |
| K <sub>aE M</sub> | 96 N    | Lift-off force medium |
| K <sub>aE H</sub> | 196 N   | Lift-off force heavy  |
| c <sub>a L</sub>  | 22 N/μm | Axial rigidity light  |
| c <sub>a M</sub>  | 33 N/μm | Axial rigidity medium |
| c <sub>a H</sub>  | 43 N/μm | Axial rigidity heavy  |



### Właściwości

---



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie dożywotnie, bezobsługowe



Smarowanie smarem



Uszczelnienie dwustronne