



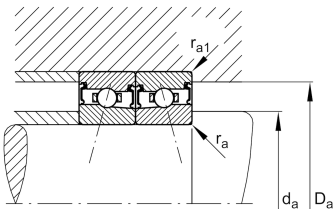
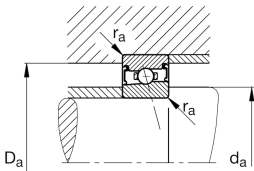
FAG

HSS7015-E-T-P4S-UL

High speed spindle bearing

High speed spindle bearing HSS70...-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 $25^\circ$                                         |
| Type of Seal            | 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 class           | L    | Preload light                                                    |
| Lubricant               | GA21 | Grease for super precision bearings, standard                    |

Main Dimensions & Performance Data

|                       |              |                                       |
|-----------------------|--------------|---------------------------------------|
| d                     | 75 mm        | Bore diameter                         |
| D                     | 115 mm       | Outside diameter                      |
| B                     | 20 mm        | Width                                 |
| C <sub>r</sub>        | 23.900 N     | Basic dynamic load rating, radial     |
| C <sub>0r</sub>       | 17.000 N     | Basic static load rating, radial      |
| C <sub>ur</sub>       | 1.800 N      | Fatigue load limit, radial            |
| n <sub>G Grease</sub> | 15.000 1/min | Limiting speed for grease lubrication |
| n <sub>G</sub>        | 24.000 1/min | Limiting speed                        |
| ≈m                    | 0,7 kg       | Masa                                  |



Mounting dimensions

|               |         |                                                   |
|---------------|---------|---------------------------------------------------|
| $d_a$         | 82 mm   | Diameter shaft shoulder                           |
| $d_a$         | h12     | Diameter shaft shoulder clearance                 |
| $D_a$         | 107 mm  | Shoulder diameter outer ring                      |
| $D_a$         | H12     | Shoulder diameter outer ring clearance            |
| $r_{a\ max}$  | 1 mm    | Maximum recess radius                             |
| $r_{a1\ max}$ | 0,6 mm  | Maximum recess radius                             |
| $a$           | 32,1 mm | Distance between the apexes of the pressure cones |

Dimensions

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

|               |          |                       |
|---------------|----------|-----------------------|
| $F_{\ V\ L}$  | 144 N    | Preload force light   |
| $F_{\ V\ M}$  | 431 N    | Preload force medium  |
| $F_{\ V\ H}$  | 863 N    | Preload force heavy   |
| $K_{\ aE\ L}$ | 415 N    | Lift-off force light  |
| $K_{\ aE\ M}$ | 1.268 N  | Lift-off force medium |
| $K_{\ aE\ H}$ | 2.587 N  | Lift-off force heavy  |
| $c_{\ a\ L}$  | 135 N/μm | Axial rigidity light  |
| $c_{\ a\ M}$  | 200 N/μm | Axial rigidity medium |
| $c_{\ a\ H}$  | 261 N/μm | Axial rigidity heavy  |



### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie dożywotnie, bezobsługowe



Smarowanie smarem



Uszczelnienie dwustronne