



FAG

**B7019-E-2RSD-T-P4S-UL**

Spindle bearing

Spindle bearing B70...-E-2RSD, 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

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

Main Dimensions & Performance Data

|                          |             |                                       |
|--------------------------|-------------|---------------------------------------|
| d                        | 95 mm       | Bore diameter                         |
| D                        | 145 mm      | Outside diameter                      |
| B                        | 24 mm       | Width                                 |
| C <sub>r</sub>           | 77.000 N    | Basic dynamic load rating, radial     |
| C <sub>0r</sub>          | 52.000 N    | Basic static load rating, radial      |
| C <sub>ur</sub>          | 5.000 N     | Fatigue load limit, radial            |
| n <sub>G</sub><br>Grease | 8.500 1/min | Limiting speed for grease lubrication |
| ≈m                       | 1,2 kg      | Masa                                  |



### Mounting dimensions

|               |        |                                                   |
|---------------|--------|---------------------------------------------------|
| $d_a$         | 105 mm | Diameter shaft shoulder                           |
| $d_a$         | h12    | Diameter shaft shoulder clearance                 |
| $D_a$         | 136 mm | Shoulder diameter outer ring                      |
| $D_a$         | H12    |                                                   |
| $r_{a \max}$  | 1,5 mm | Maximum recess radius                             |
| $r_{a1 \max}$ | 0,6 mm | Maximum recess radius                             |
| $a$           | 40 mm  | Distance between the apexes of the pressure cones |

### Dimensions

|              |        |                           |
|--------------|--------|---------------------------|
| $r_{\min}$   | 1,5 mm | Minimum chamfer dimension |
| $r_{1 \min}$ | 1,5 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

|           |          |                       |
|-----------|----------|-----------------------|
| $F_{VL}$  | 671 N    | Preload force light   |
| $F_{VM}$  | 2.295 N  | Preload force medium  |
| $F_{VH}$  | 4.780 N  | Preload force heavy   |
| $K_{aEL}$ | 1.955 N  | Lift-off force light  |
| $K_{aEM}$ | 6.904 N  | Lift-off force medium |
| $K_{aEH}$ | 14.849 N | Lift-off force heavy  |
| $c_{aL}$  | 233 N/μm | Axial rigidity light  |
| $c_{aM}$  | 372 N/μm | Axial rigidity medium |
| $c_{aH}$  | 502 N/μm | Axial rigidity heavy  |



### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie dożywotnie, bezobsługowe



Smarowanie smarem



Uszczelnienie dwustronne