

**FAG****B71920-E-T-P4S-UL** 

## Spindle bearing

Spindle bearing B719...-E, adjusted, in pairs or sets, contact angle  $\alpha = 25^\circ$ , 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                 | Without | Not sealed                                                       |
| Cage                    | T       | Laminated fabric cage                                            |
| Arrangement bearing set | U       | Single bearing                                                   |

## Main Dimensions &amp; Performance Data

|                        |              |                                       |
|------------------------|--------------|---------------------------------------|
| d                      | 100 mm       | Bore diameter                         |
| D                      | 140 mm       | Outside diameter                      |
| B                      | 20 mm        | Width                                 |
| $C_r$                  | 57.000 N     | Basic dynamic load rating, radial     |
| $C_{0r}$               | 42.500 N     | Basic static load rating, radial      |
| $C_{ur}$               | 4.100 N      | Fatigue load limit, radial            |
| $n_{G \text{ Grease}}$ | 8.500 1/min  | Limiting speed for grease lubrication |
| $n_{G \text{ Oil}}$    | 13.000 1/min | Limiting speed for oil lubrication    |
| $\approx m$            | 0,78 kg      | Masa                                  |





Mounting dimensions

|                      |          |                                                   |
|----------------------|----------|---------------------------------------------------|
| d <sub>a</sub>       | 107 mm   | Diameter shaft shoulder                           |
| d <sub>a</sub>       | h12      | Diameter shaft shoulder clearance                 |
| D <sub>a</sub>       | 133 mm   | Shoulder diameter outer ring                      |
| D <sub>a</sub>       | H12      |                                                   |
| r <sub>a</sub> max   | 0,6 mm   | Maximum recess radius                             |
| r <sub>a1</sub> max  | 0,6 mm   | Maximum recess radius                             |
| E <sub>tk</sub> min  | 113,4 mm | Minimum diameter injection pitch                  |
| E <sub>tk</sub> max  | 117,5 mm | Maximum diameter injection pitch                  |
| E <sub>tk1</sub> min | 113,4 mm | Minimum diameter injection pitch                  |
| E <sub>tk1</sub> max | 117,5 mm | Maximum diameter injection pitch                  |
| a                    | 38,2 mm  | Distance between the apexes of the pressure cones |

Dimensions

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

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 100 °C | Operating temperature max. |



Additional information

|           |                |                       |
|-----------|----------------|-----------------------|
| $F_{VL}$  | 450 N          | Preload force light   |
| $F_{VM}$  | 1.616 N        | Preload force medium  |
| $F_{VH}$  | 3.417 N        | Preload force heavy   |
| $K_{aEL}$ | 1.305 N        | Lift-off force light  |
| $K_{aEM}$ | 4.839 N        | Lift-off force medium |
| $K_{aEH}$ | 10.556 N       | Lift-off force heavy  |
| $c_{aL}$  | 219 N/ $\mu$ m | Axial rigidity light  |
| $c_{aM}$  | 353 N/ $\mu$ m | Axial rigidity medium |
| $c_{aH}$  | 479 N/ $\mu$ m | Axial rigidity heavy  |

Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Smarowanie smarem
-  Smarowanie olejem
-  Bez uszczelnienia