



FAG

B71944-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°                                                |
| 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 & Performance Data

|                       |             |                                       |
|-----------------------|-------------|---------------------------------------|
| d                     | 220 mm      | Bore diameter                         |
| D                     | 300 mm      | Outside diameter                      |
| B                     | 38 mm       | Width                                 |
| C <sub>r</sub>        | 212.000 N   | Basic dynamic load rating, radial     |
| C <sub>0r</sub>       | 192.000 N   | Basic static load rating, radial      |
| C <sub>ur</sub>       | 12.600 N    | Fatigue load limit, radial            |
| n <sub>G Grease</sub> | 3.800 1/min | Limiting speed for grease lubrication |
| n <sub>G Oil</sub>    | 6.000 1/min | Limiting speed for oil lubrication    |
| ≈m                    | 6,499 kg    | Masa                                  |





Mounting dimensions

|                      |          |                                                   |
|----------------------|----------|---------------------------------------------------|
| d <sub>a</sub>       | 234 mm   | Diameter shaft shoulder                           |
| d <sub>a</sub>       | h12      | Diameter shaft shoulder clearance                 |
| D <sub>a</sub>       | 286 mm   | Shoulder diameter outer ring                      |
| D <sub>a</sub>       | H12      |                                                   |
| r <sub>a</sub> max   | 1 mm     | Maximum recess radius                             |
| r <sub>a1</sub> max  | 1 mm     | Maximum recess radius                             |
| E <sub>tk</sub> min  | 244,7 mm | Minimum diameter injection pitch                  |
| E <sub>tk</sub> max  | 253,1 mm | Maximum diameter injection pitch                  |
| E <sub>tk1</sub> min | 244,7 mm | Minimum diameter injection pitch                  |
| E <sub>tk1</sub> max | 253,1 mm | Maximum diameter injection pitch                  |
| a                    | 79,6 mm  | Distance between the apexes of the pressure cones |

Dimensions

|                    |        |                           |
|--------------------|--------|---------------------------|
| r <sub>min</sub>   | 2,1 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

|           |                |                       |
|-----------|----------------|-----------------------|
| $F_{VL}$  | 1.705 N        | Preload force light   |
| $F_{VM}$  | 6.060 N        | Preload force medium  |
| $F_{VH}$  | 12.777 N       | Preload force heavy   |
| $K_{aEL}$ | 4.937 N        | Lift-off force light  |
| $K_{aEM}$ | 18.042 N       | Lift-off force medium |
| $K_{aEH}$ | 39.132 N       | Lift-off force heavy  |
| $c_{aL}$  | 461 N/ $\mu$ m | Axial rigidity light  |
| $c_{aM}$  | 739 N/ $\mu$ m | Axial rigidity medium |
| $c_{aH}$  | 995 N/ $\mu$ m | Axial rigidity heavy  |

Właściwości

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