

**FAG****HS71901-C-T-P4S-UL**

## High speed spindle bearing

High speed spindle bearing HS719...-C,  
adjusted, in pairs or sets, contact angle  $\alpha = 15^\circ$ , restricted tolerances

## Informacje techniczne



## Twoja aktualna wersja produktu

|                         |         |                                                                  |
|-------------------------|---------|------------------------------------------------------------------|
| Contact angle           | C       | Contact angle $15^\circ$                                         |
| Type of Seal            | Without | Not sealed                                                       |
| 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                                                    |

## Main Dimensions &amp; Performance Data

|              |               |                                       |
|--------------|---------------|---------------------------------------|
| d            | 12 mm         | Bore diameter                         |
| D            | 24 mm         | Outside diameter                      |
| B            | 6 mm          | Width                                 |
| $C_r$        | 1.850 N       | Basic dynamic load rating, radial     |
| $C_{0r}$     | 720 N         | Basic static load rating, radial      |
| $C_{ur}$     | 76 N          | Fatigue load limit, radial            |
| $n_G$ Grease | 90.000 1/min  | Limiting speed for grease lubrication |
| $n_G$ Oil    | 140.000 1/min | Limiting speed for oil lubrication    |
| $n_G$        | 140.000 1/min | Limiting speed                        |
| $\approx m$  | 11 g          | Masa                                  |





Mounting dimensions

|                      |         |                                                   |
|----------------------|---------|---------------------------------------------------|
| d <sub>a</sub>       | 15 mm   | Diameter shaft shoulder                           |
| d <sub>a</sub>       | h12     | Diameter shaft shoulder clearance                 |
| D <sub>a</sub>       | 21,5 mm | Shoulder diameter outer ring                      |
| D <sub>a</sub>       | H12     | Shoulder diameter outer ring clearance            |
| r <sub>a</sub> max   | 0,3 mm  | Maximum recess radius                             |
| r <sub>a1</sub> max  | 0,1 mm  | Maximum recess radius                             |
| E <sub>tk</sub> min  | 16,6 mm | Minimum diameter injection pitch                  |
| E <sub>tk</sub> max  | 17 mm   | Maximum diameter injection pitch                  |
| E <sub>tk1</sub> min | 15,7 mm | Minimum diameter injection pitch                  |
| E <sub>tk1</sub> max | 17 mm   | Maximum diameter injection pitch                  |
| a                    | 5,4 mm  | Distance between the apexes of the pressure cones |

Dimensions

|                    |        |                           |
|--------------------|--------|---------------------------|
| r <sub>min</sub>   | 0,3 mm | Minimum chamfer dimension |
| r <sub>1</sub> min | 0,3 mm | Minimum chamfer dimension |
| α                  | 15 °   | Contact angle             |

Temperature range

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



Additional information

|           |         |                       |
|-----------|---------|-----------------------|
| $F_{VL}$  | 7 N     | Preload force light   |
| $F_{VM}$  | 21 N    | Preload force medium  |
| $F_{VH}$  | 41 N    | Preload force heavy   |
| $K_{aEL}$ | 21 N    | Lift-off force light  |
| $K_{aEM}$ | 66 N    | Lift-off force medium |
| $K_{aEH}$ | 137 N   | Lift-off force heavy  |
| $c_{aL}$  | 9 N/μm  | Axial rigidity light  |
| $c_{aM}$  | 15 N/μm | Axial rigidity medium |
| $c_{aH}$  | 21 N/μm | Axial rigidity heavy  |

Właściwości

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Obciążenie promieniowe
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Obciążenie osiowe jednokierunkowe
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Smarowanie smarem
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Smarowanie olejem
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Bez uszczelnienia