



FAG

HS7016-C-T-P4S-UL

High speed spindle bearing

High speed spindle bearing HS70...-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°                                                |
| Sealing                 | 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                 | L       | Preload light                                                    |

Main Dimensions & Performance Data

|                       |              |                                       |
|-----------------------|--------------|---------------------------------------|
| d                     | 80 mm        | Bore diameter                         |
| D                     | 125 mm       | Outside diameter                      |
| B                     | 22 mm        | Width                                 |
| C <sub>r</sub>        | 30.500 N     | Basic dynamic load rating, radial     |
| C <sub>0r</sub>       | 21.800 N     | Basic static load rating, radial      |
| C <sub>ur</sub>       | 2.280 N      | Fatigue load limit, radial            |
| n <sub>G</sub> Grease | 15.000 1/min | Limiting speed for grease lubrication |
| n <sub>G</sub> Oil    | 24.000 1/min | Limiting speed for oil lubrication    |
| n <sub>G</sub>        | 24.000 1/min | Limiting speed                        |
| ≈m                    | 0,886 kg     | Masa                                  |





Mounting dimensions

|                      |         |                                                   |
|----------------------|---------|---------------------------------------------------|
| d <sub>a</sub>       | 88 mm   | Diameter shaft shoulder                           |
| d <sub>a</sub>       | h12     | Diameter shaft shoulder clearance                 |
| D <sub>a</sub>       | 117 mm  | Shoulder diameter outer ring                      |
| D <sub>a</sub>       | H12     | Shoulder diameter outer ring clearance            |
| r <sub>a</sub> max   | 1 mm    | Maximum recess radius                             |
| r <sub>a1</sub> max  | 0,6 mm  | Maximum recess radius                             |
| E <sub>tk</sub> min  | 97,3 mm | Minimum diameter injection pitch                  |
| E <sub>tk</sub> max  | 99,7 mm | Maximum diameter injection pitch                  |
| E <sub>tk1</sub> min | 94 mm   | Minimum diameter injection pitch                  |
| E <sub>tk1</sub> max | 99,7 mm | Maximum diameter injection pitch                  |
| a                    | 24,7 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                  | 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

|           |          |                       |
|-----------|----------|-----------------------|
| $F_{VL}$  | 106 N    | Preload force light   |
| $F_{VM}$  | 317 N    | Preload force medium  |
| $F_{VH}$  | 633 N    | Preload force heavy   |
| $K_{aEL}$ | 315 N    | Lift-off force light  |
| $K_{aEM}$ | 991 N    | Lift-off force medium |
| $K_{aEH}$ | 2.063 N  | Lift-off force heavy  |
| $c_{aL}$  | 59 N/μm  | Axial rigidity light  |
| $c_{aM}$  | 92 N/μm  | Axial rigidity medium |
| $c_{aH}$  | 126 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