



FAG

HC7015-E-T-P4S-UL

High speed spindle bearing

High speed spindle bearing HC70...-E, adjusted, in pairs or sets, contact angle  $\alpha = 25^\circ$ , with ceramic balls, restricted tolerances

Informacje techniczne



Twoja aktualna wersja produktu

|                         |         |                                                                  |
|-------------------------|---------|------------------------------------------------------------------|
| Preload                 | L       | Preload light                                                    |
| Contact angle           | E       | Contact angle $25^\circ$                                         |
| 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                                                   |

Main Dimensions & Performance Data

|                       |              |                                       |
|-----------------------|--------------|---------------------------------------|
| d                     | 75 mm        | Bore diameter                         |
| D                     | 115 mm       | Outside diameter                      |
| B                     | 20 mm        | Width                                 |
| C <sub>r</sub>        | 24.000 N     | Basic dynamic load rating, radial     |
| C <sub>0r</sub>       | 16.200 N     | Basic static load rating, radial      |
| C <sub>ur</sub>       | 1.310 N      | Fatigue load limit, radial            |
| n <sub>G Grease</sub> | 19.000 1/min | Limiting speed for grease lubrication |
| n <sub>G Oil</sub>    | 30.000 1/min | Limiting speed for oil lubrication    |
| ≈m                    | 0,617 kg     | Masa                                  |



Mounting dimensions

|                      |         |                                                   |
|----------------------|---------|---------------------------------------------------|
| d <sub>a</sub>       | 82 mm   | Diameter shaft shoulder                           |
| d <sub>a</sub>       | h12     | Diameter shaft shoulder clearance                 |
| D <sub>a</sub>       | 107 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  | 90,2 mm | Minimum diameter injection pitch                  |
| E <sub>tk</sub> max  | 92,4 mm | Maximum diameter injection pitch                  |
| E <sub>tk1</sub> min | 87,3 mm | Minimum diameter injection pitch                  |
| E <sub>tk1</sub> max | 92,4 mm | Maximum diameter injection pitch                  |
| a                    | 32,1 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

|           |                |                       |
|-----------|----------------|-----------------------|
| $F_{VL}$  | 99 N           | Preload force light   |
| $F_{VM}$  | 298 N          | Preload force medium  |
| $F_{VH}$  | 597 N          | Preload force heavy   |
| $K_{aEL}$ | 285 N          | Lift-off force light  |
| $K_{aEM}$ | 868 N          | Lift-off force medium |
| $K_{aEH}$ | 1.761 N        | Lift-off force heavy  |
| $c_{aL}$  | 134 N/ $\mu$ m | Axial rigidity light  |
| $c_{aM}$  | 197 N/ $\mu$ m | Axial rigidity medium |
| $c_{aH}$  | 255 N/ $\mu$ m | 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