



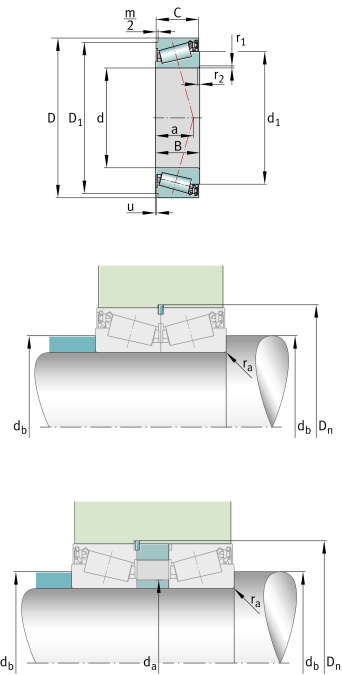
FAG

JK0S050

Tapered roller bearing

Tapered roller bearings JK0S, integral tapered roller bearings, lip seal on one side, diameter series 0

Informacje techniczne



Twoja aktualna wersja produktu

|                 |          |                                                          |
|-----------------|----------|----------------------------------------------------------|
| Tolerance class | PN       | Normal (ISO 492:2023)                                    |
| Heat treatment  | Standard |                                                          |
| Cage            | TVP      | Cage made of glass-fiber reinforced plastic, window cage |
| Number of rows  | 1        | Single-row design                                        |

Main Dimensions & Performance Data

|                 |             |                                                |
|-----------------|-------------|------------------------------------------------|
| d               | 50 mm       | Bore diameter                                  |
| D               | 80 mm       | Outside diameter                               |
| B               | 22 mm       | Width, inner ring                              |
| C               | 21,5 mm     | Width, outer ring                              |
| C <sub>r</sub>  | 64.000 N    | Basic dynamic load rating, radial              |
| C <sub>0r</sub> | 93.000 N    | Basic static load rating, radial               |
| C <sub>ur</sub> | 11.400 N    | Fatigue load limit, radial                     |
| n <sub>G</sub>  | 4.050 1/min | Limiting speed                                 |
| F <sub>BR</sub> | 31.400 N    | Load carrying capacity of snap ring connection |
|                 | 12.800 N    | Maximum axial clamping force                   |
| ≈m              | 0,384 kg    | Masa                                           |



### Mounting dimensions

|              |         |                                    |
|--------------|---------|------------------------------------|
| $d_{a \max}$ | 56 mm   | Maximum diameter of shaft shoulder |
| $d_{b \min}$ | 56 mm   | Minimum diameter of shaft shoulder |
| $r_{a \max}$ | 1 mm    | Maximum fillet radius of shaft     |
| $D_n$        | 81,8 mm | Groove diameter at housing         |
| $\Delta D_n$ | 0,22 mm | Upper limit deviation              |
| $\Delta D_n$ | 0 mm    | Lower limit deviation              |

### Dimensions

|                 |         |                                                   |
|-----------------|---------|---------------------------------------------------|
| $r_{1, 2 \min}$ | 1 mm    | Minimum chamfer dimension of inner ring back face |
| $D_1$           | 75,7 mm | Diameter of groove                                |
| $m/2$           | 1 mm    | Width of groove                                   |
| $a$             | 19 mm   | Distance between the apexes of the pressure cones |
| $d_1$           | 66,4 mm | Guidance rib diameter of inner ring               |
| $u$             | 0,02 mm | Stand out inner to outer ring                     |
| $\Delta_u$      | 0,05 mm | Upper limit deviation                             |
| $\Delta_u$      | 0 mm    | Lower limit deviation                             |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 110 °C | Operating temperature max. |

### Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,42 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y$   | 1,43 | Dynamic axial load factor                                                            |
| $Y_0$ | 0,79 | Static axial load factor                                                             |

### Additional information

BR80

Snap ring



### Właściwości

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Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie smarem



Uszczelnienie jednostronne