



FAG

33010-XL

Tapered roller bearing

Tapered roller bearings 330, main dimensions  
acc. to DIN 720, separable

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                 |          |                                              |
|-----------------|----------|----------------------------------------------|
| Tolerance class | P6X      | Class 6X (ISO 492:2023)                      |
| Heat treatment  | Standard |                                              |
| Cage            | Standard | Sheet steel cage, window cage, roller-guided |
| Internal design | Standard |                                              |
| Quality level   | XL       | X-life                                       |
| Number of rows  | 1        | Single-row design                            |

Main Dimensions & Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 50 mm        | Bore diameter                     |
| D               | 80 mm        | Outside diameter                  |
| B               | 24 mm        | Width, inner ring                 |
| C               | 19 mm        | Width, outer ring                 |
| T               | 24 mm        | Width, total                      |
| C <sub>r</sub>  | 93.000 N     | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 114.000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 18.600 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 10.500 1/min | Limiting speed                    |
| n <sub>gr</sub> | 5.300 1/min  | Thermal speed rating              |
| m               | 0,453 kg     | Masa                              |



Mounting dimensions

|                    |       |                                      |
|--------------------|-------|--------------------------------------|
| d <sub>a</sub> max | 56 mm | Maximum diameter of shaft shoulder   |
| d <sub>b</sub> min | 56 mm | Minimum diameter of shaft shoulder   |
| D <sub>a</sub> min | 72 mm | Minimum diameter of housing shoulder |
| D <sub>a</sub> max | 74 mm | Maximum diameter of housing shoulder |
| D <sub>b</sub> min | 76 mm | Minimum diameter of housing shoulder |
| C <sub>a</sub> min | 4 mm  | Minimum axial space                  |
| C <sub>b</sub> min | 5 mm  | Minimum axial space                  |
| r <sub>a</sub> max | 1 mm  | Maximum fillet radius of shaft       |
| r <sub>b</sub> max | 1 mm  | Maximum fillet radius of housing     |

Dimensions

|                       |         |                                                   |
|-----------------------|---------|---------------------------------------------------|
| r <sub>1, 2</sub> min | 1 mm    | Minimum chamfer dimension of inner ring back face |
| r <sub>3, 4</sub> min | 1 mm    | Minimum chamfer dimension of outer ring back face |
| a                     | 17 mm   | Distance between the apexes of the pressure cones |
| d <sub>1</sub>        | 66,5 mm | Guidance rib diameter of inner ring               |

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 120 °C | Operating temperature max. |

Calculation factors

|                |      |                                                                                  |
|----------------|------|----------------------------------------------------------------------------------|
| e              | 0,32 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y              | 1,9  | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 1,04 | Static axial load factor                                                         |

Additional information

|         |                                                  |
|---------|--------------------------------------------------|
| T2CE050 | Comparative designation to ISO 10317 and ISO 355 |
|---------|--------------------------------------------------|



### Właściwości

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