



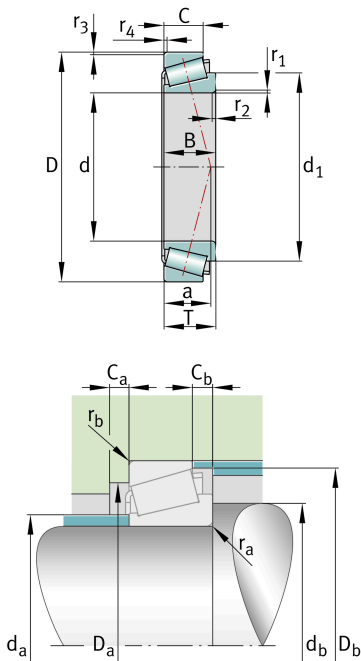
FAG

33015

Tapered roller bearing

Tapered roller bearings 330, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

Technical information



Your current product variant

|                                |          |                                              |
|--------------------------------|----------|----------------------------------------------|
| Tolerance class                | P6X      | Class 6X (ISO 492:2014)                      |
| Heat treatment                 | Standard |                                              |
| Cage                           | Standard | Sheet steel cage, window cage, roller-guided |
| Internal design                | Standard |                                              |
| Quality level                  | Standard |                                              |
| Number of rolling element rows | 1        | Single-row design                            |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 75 mm       | Bore diameter                     |
| D               | 115 mm      | Outside diameter                  |
| B               | 31 mm       | Width, inner ring                 |
| C               | 25.5 mm     | Width, outer ring                 |
| T               | 31 mm       | Width, total                      |
| C <sub>r</sub>  | 139,000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 232,000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 30,500 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 5,900 1/min | Limiting speed                    |
| n <sub>gr</sub> | 3,700 1/min | Thermal speed rating              |
| m               | 1.163 kg    | Weight                            |



Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a</sub> max | 83 mm  | Maximum diameter of shaft shoulder   |
| d <sub>b</sub> min | 82 mm  | Minimum diameter of shaft shoulder   |
| D <sub>a</sub> min | 104 mm | Minimum diameter of housing shoulder |
| D <sub>a</sub> max | 108 mm | Maximum diameter of housing shoulder |
| D <sub>b</sub> min | 110 mm | Minimum diameter of housing shoulder |
| C <sub>a</sub> min | 6 mm   | Minimum axial space                  |
| C <sub>b</sub> min | 5.5 mm | Minimum axial space                  |
| r <sub>a</sub> max | 1.5 mm | Maximum fillet radius of shaft       |
| r <sub>b</sub> max | 1.5 mm | Maximum fillet radius of housing     |

Dimensions

|                       |         |                                                   |
|-----------------------|---------|---------------------------------------------------|
| r <sub>1, 2</sub> min | 1.5 mm  | Minimum chamfer dimension of inner ring back face |
| r <sub>3, 4</sub> min | 1.5 mm  | Minimum chamfer dimension of outer ring back face |
| a                     | 23 mm   | Distance between the apexes of the pressure cones |
| d <sub>1</sub>        | 96.5 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              | 0.3  | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y              | 2.01 | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 1.11 | Static axial load factor                                                         |

Additional information

|         |                                                  |
|---------|--------------------------------------------------|
| T2CE075 | Comparative designation to ISO 10317 and ISO 355 |
|---------|--------------------------------------------------|



Characteristics

-  Radial load
-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed