

**FAG****T7FC070-XL**

Tapered roller bearing

Tapered roller bearings T, main dimensions  
acc. to ISO 355, separable**X-life**

## Technical information

## Your current product variant

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

## Main Dimensions &amp; Performance Data

|             |             |                                   |
|-------------|-------------|-----------------------------------|
| d           | 70 mm       | Bore diameter                     |
| D           | 140 mm      | Outside diameter                  |
| B           | 35,5 mm     | Width, inner ring                 |
| C           | 27 mm       | Width, outer ring                 |
| T           | 39 mm       | Width, total                      |
| $C_r$       | 219.000 N   | Basic dynamic load rating, radial |
| $C_{0r}$    | 237.000 N   | Basic static load rating, radial  |
| $C_{ur}$    | 38.000 N    | Fatigue load limit, radial        |
| $n_G$       | 5.800 1/min | Limiting speed                    |
| $n_{gr}$    | 4.150 1/min | Thermal speed rating              |
| $\approx m$ | 2,606 kg    | Weight                            |



Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a</sub> max | 81 mm  | Maximum diameter of shaft shoulder   |
| d <sub>b</sub> min | 90 mm  | Minimum diameter of shaft shoulder   |
| D <sub>a</sub> min | 106 mm | Minimum diameter of housing shoulder |
| D <sub>a</sub> max | 126 mm | Maximum diameter of housing shoulder |
| D <sub>b</sub> min | 133 mm | Minimum diameter of housing shoulder |
| C <sub>a</sub> min | 6 mm   | Minimum axial space                  |
| C <sub>b</sub> min | 12 mm  | Minimum axial space                  |
| r <sub>a</sub> max | 3 mm   | Maximum fillet radius of shaft       |
| r <sub>b</sub> max | 3 mm   | Maximum fillet radius of housing     |

Dimensions

|                       |          |                                                   |
|-----------------------|----------|---------------------------------------------------|
| r <sub>1, 2</sub> min | 3 mm     | Minimum chamfer dimension of inner ring back face |
| r <sub>3, 4</sub> min | 3 mm     | Minimum chamfer dimension of outer ring back face |
| a                     | 47 mm    | Distance between the apexes of the pressure cones |
| d <sub>1</sub>        | 108,8 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              | 0,87 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y              | 0,69 | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 0,38 | Static axial load factor                                                         |

Additional information

|         |                                                  |
|---------|--------------------------------------------------|
| T7FC070 | Comparative designation to ISO 10317 and ISO 355 |
|---------|--------------------------------------------------|



Characteristics

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