



FAG

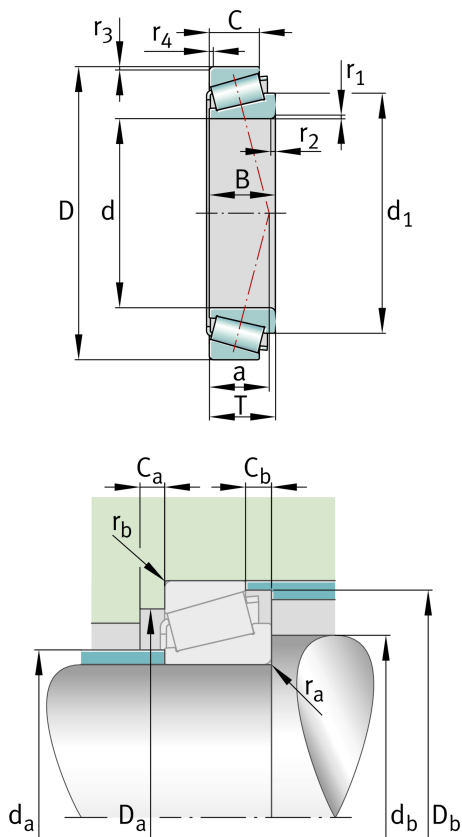
**32219-XL**

Tapered roller bearing

Tapered roller bearings 322, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

X-life

## Technical information



## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 95 mm       | Bore diameter                     |
| D               | 170 mm      | Outside diameter                  |
| B               | 43 mm       | Width, inner ring                 |
| C               | 37 mm       | Width, outer ring                 |
| T               | 45.5 mm     | Width, total                      |
| C <sub>r</sub>  | 355,000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 420,000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 64,000 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 4,950 1/min | Limiting speed                    |
| n <sub>gr</sub> | 2,700 1/min | Thermal speed rating              |
| ≈m              | 4.186 kg    | Weight                            |

## Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a max</sub> | 108 mm | Maximum diameter of shaft shoulder   |
| d <sub>b min</sub> | 107 mm | Minimum diameter of shaft shoulder   |
| D <sub>a min</sub> | 145 mm | Minimum diameter of housing shoulder |
| D <sub>a max</sub> | 158 mm | Maximum diameter of housing shoulder |
| D <sub>b min</sub> | 161 mm | Minimum diameter of housing shoulder |
| C <sub>a min</sub> | 5 mm   | Minimum axial space                  |
| C <sub>b min</sub> | 8.5 mm | Minimum axial space                  |
| r <sub>a max</sub> | 3 mm   | Maximum fillet radius of shaft       |
| r <sub>b max</sub> | 2.5 mm | Maximum fillet radius of housing     |



Dimensions

|                        |        |                                                   |
|------------------------|--------|---------------------------------------------------|
| $r_{1, 2 \text{ min}}$ | 3 mm   | Minimum chamfer dimension of inner ring back face |
| $r_{3, 4 \text{ min}}$ | 2.5 mm | Minimum chamfer dimension of outer ring back face |
| a                      | 39 mm  | Distance between the apexes of the pressure cones |
| $d_1$                  | 129 mm | Guidance rib diameter of inner ring               |

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| $T_{\text{min}}$ | -30 °C | Operating temperature min. |
| $T_{\text{max}}$ | 120 °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

|  |         |                                                  |
|--|---------|--------------------------------------------------|
|  | T3FC095 | Comparative designation to ISO 10317 and ISO 355 |
|--|---------|--------------------------------------------------|