



FAG

K941-932-XL

Tapered roller bearing

Tapered roller bearings K-Series, in inch sizes, separable

X-life

Technical information

Your current product variant

| | | |
|-----------------|----------|--|
| Tolerance class | ABMA4 | Class 4 (ANSI/ABMA 19.2:2013) |
| 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 & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 101,6 mm | Bore diameter |
| D | 212,725 mm | Outside diameter |
| B | 66,675 mm | Width, inner ring |
| C | 53,975 mm | Width, outer ring |
| T | 66,675 mm | Width, total |
| C_r | 610.000 N | Basic dynamic load rating, radial |
| C_{0r} | 720.000 N | Basic static load rating, radial |
| C_{ur} | 107.000 N | Fatigue load limit, radial |
| n_G | 4.050 1/min | Limiting speed |
| n_{gr} | 2.650 1/min | Thermal speed rating |
| $\approx m$ | 11,06 kg | Weight |





Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \max}$ | 128 mm | Maximum diameter of shaft shoulder |
| $d_{b \min}$ | 141 mm | Minimum diameter of shaft shoulder |
| $D_{a \min}$ | 187 mm | Minimum diameter of housing shoulder |
| $D_{a \max}$ | 198 mm | Maximum diameter of housing shoulder |
| $D_{b \min}$ | 193 mm | Minimum diameter of housing shoulder |
| $C_{a \min}$ | 5 mm | Minimum axial space |
| $C_{b \min}$ | 10 mm | Minimum axial space |
| $r_{a \max}$ | 7,1 mm | Maximum fillet radius of shaft |
| $r_{b \max}$ | 3,3 mm | Maximum fillet radius of housing |

Dimensions

| | | |
|-----------------|-----------|---|
| $r_{1, 2 \min}$ | 7,1 mm | Minimum chamfer dimension of inner ring back face |
| $r_{3, 4 \min}$ | 3,3 mm | Minimum chamfer dimension of outer ring back face |
| a | 47 mm | Distance between the apexes of the pressure cones |
| d_1 | 155,25 mm | Guidance rib diameter of inner ring |

Temperature range

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

Calculation factors

| | | |
|-------|------|--|
| e | 0,33 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y | 1,84 | Dynamic axial load factor |
| Y_0 | 1,01 | Static axial load factor |



Characteristics

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