

## FAG

22318-E1-XL-K-C3
Spherical Roller Bearing
Schaeffler ID: Spherical roller bearings 223..-E1-K, main 0190063300030 Spherical roller bearings $223 . .-$ - $1-K$, main
dimens to DIN 635-2, with tapered bore, taper 1:12

## X-life

## Technical information



## Main Dimensions \& Performance Data

| d | 3,543 in | Bore diameter |
| :---: | :---: | :---: |
| D | 7,48 in | Outside diameter |
| B | 2,52 in | Width |
| $\mathrm{Cr}_{\text {r }}$ | 137.140,288 lbf | Basic dynamic load rating, radial |
| C 0 r | 141.636,691 lbf | Basic static load rating, radial |
| C ur | 12.589,928 lbf | Fatigue load limit, radial |
| $\mathrm{n}_{\mathrm{G}}$ | 3.850 1/min | Limiting speed |
| n ๆr | 3.000 1/min | Reference speed |
|  | 18,314 lbs | \$\{Weight\} |

Mounting dimensions


| $d_{\text {a min }}$ | 4,094 in | Minimum diameter shaft shoulder |
| :--- | :--- | :--- |
| $d_{a \max }$ | 4,331 in | Maximum diameter of shaft shoulder |
| $\mathrm{D}_{\mathrm{a} \text { max }}$ | 6,929 in | Maximum diameter of housing shoulder |
| $\mathrm{r}_{\mathrm{a} \text { max }}$ | 0,098 in | Maximum recess radius |
| $\mathrm{d}_{\mathrm{b} \text { min }}$ | 3,937 in | Minimum cavity diameter of the sleeve |
| $\mathrm{B}_{\mathrm{a} \text { min }}$ | 0,236 in | Minimum cavity width of the sleeve |

## Dimensions

| $r_{\text {min }}$ | 0,118 in | Minimum chamfer dimension |
| :--- | :--- | :--- |
| $\mathrm{D}_{1}$ | 6,398 in | Bore diameter outer ring |
| $\mathrm{d}_{2}$ | 4,339 in | Raceway diameter of the inner ring |
| $\mathrm{d}_{\mathrm{s}}$ | 0,248 in | Diameter lubrication hole |
| $\mathrm{n}_{\mathrm{s}}$ | 0,48 in | Width of lubricating groove |

## Temperature range

| $\mathrm{T}_{\text {min }}$ | $-22^{\circ} \mathrm{F}$ | Operating temperature min. |
| :--- | :--- | :--- |
| $\mathrm{T}_{\max }$ | $392{ }^{\circ} \mathrm{F}$ | Operating temperature max. |

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product. For further information you can use the contact form on our website.

## Calculation factors

| e | 0,33 | Limiting value of $\mathrm{Fa} / \mathrm{Fr}$ for the applicability of diff. Values of factors $X$ and $Y$ |
| :---: | :---: | :---: |
| $Y_{1}$ | 2,03 | Dynamic axial load factor |
| $Y_{2}$ | 3,02 | Dynamic axial load factor |
| $\mathrm{Y}_{0}$ | 1,98 | Static axial load factor |
| Additional information |  |  |
|  | H2318 | Adapter sleeve |
|  | AHX2318 | Withdrawal sleeve |

