

**FAG****29416-E1-XL**

Axial spherical roller bearing

Axial spherical roller bearing 294..-E1-XL, no flanging ring

X-life

Technical information



Your current product variant

| | | |
|---|----------|------------------|
| Heat treatment | Standard | Standard |
| Locating feature, housing washer | Without | |
| Cage | JP | Sheet metal cage |
| Handling thread holes | Without | |
| Constricted width and inclination variation | Standard | |
| Test certificate | Without | |

Main Dimensions & Performance Data

| | | |
|-----------------|-------------|----------------------------------|
| d | 80 mm | Bore diameter |
| D | 170 mm | Outside diameter |
| T | 54 mm | Height |
| C _a | 720.000 N | Basic dynamic load rating, axial |
| C _{0a} | 1.720.000 N | Basic static load rating, axial |
| C _{ua} | 199.000 N | Fatigue load limit, axial |
| n _G | 4.350 1/min | Limiting speed |
| n _{gr} | 2.140 1/min | Reference speed |
| ≈m | 5,32 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 125 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 141 mm | Maximum diameter of housing shoulder |
| $D_{b \min}$ | 173 mm | Minimum bore diameter housing |
| $d_{b \max}$ | 88 mm | Maximum distance sleeve |
| $r_{a \max}$ | 2,1 mm | Maximum recess radius |

Dimensions

| | | |
|------------|----------|------------------------------|
| D_1 | 112,5 mm | Bore diameter housing washer |
| d_1 | 150,9 mm | Rip diameter shaft washer |
| r_{\min} | 2,1 mm | Minimum chamfer dimension |
| T_1 | 26,5 mm | Height of the housing washer |
| T_3 | 35 mm | Height of the shaft washer |
| T_5 | 48,5 mm | Distance shaft washer - cage |
| A | 50 mm | Distance of the center point |

Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 200 °C | Operating temperature max. |

Characteristics

| | |
|---|--|
|  | Radial load |
|  | Axial load in one direction |
|  | Grease Lubrication |
|  | Oil Lubrication |
|  | Not sealed |
|  | Static angular error and misalignment |
|  | Dynamic angular error and misalignment |