



FAG

24122-BE-XL-2VSR-H40-C4

Spherical Roller Bearing

Spherical roller bearing 241...-BE-XL-2VSR-H40, symmetric with rib washer

X-life

Technical information



Your current product variant

| | | |
|---------------------------|--------------|---------------------------------------|
| Design | BE | With lose center lip ring |
| Bore type | Z | Cylindrical |
| Cage | JPB | Sheet metal cage |
| Radial internal clearance | C4 (Group 4) | Internal clearance larger than C3 |
| Relubrication facility | H40 | Without lubricating groove and holes |
| Sealing | 2VSR | Seals on both sides, high temperature |

Main Dimensions & Performance Data

| | | |
|-------------|-----------|-----------------------------------|
| d | 110 mm | Bore diameter |
| D | 180 mm | Outside diameter |
| B | 69 mm | Width |
| C_r | 530.000 N | Basic dynamic load rating, radial |
| C_{0r} | 750.000 N | Basic static load rating, radial |
| C_{ur} | 86.000 N | Fatigue load limit, radial |
| n_G | 830 1/min | Limiting speed |
| $\approx m$ | 6,7 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 121 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 169 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2 mm | Maximum recess radius |

Dimensions

| | | |
|------------|----------|------------------------------------|
| r_{\min} | 2 mm | Minimum chamfer dimension |
| D_1 | 167,1 mm | Bore diameter outer ring |
| d_2 | 120,8 mm | Raceway diameter of the inner ring |





Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 180 °C | Operating temperature max. |

Calculation factors

| | | |
|-------|------|--|
| e | 0,34 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 1,96 | Dynamic axial load factor |
| Y_2 | 2,92 | Dynamic axial load factor |
| Y_0 | 1,92 | Static axial load factor |

Characteristics

| | |
|---|--|
|  | Radial load |
|  | Axial load in one direction |
|  | Axial load in two directions |
|  | Lifetime lubrication, freedom from maintenance |
|  | Grease Lubrication |
|  | Sealed on both sides |
|  | Static angular error and misalignment |
|  | Dynamic angular error and misalignment |