



FAG

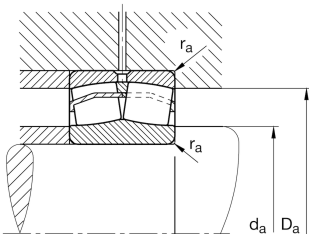
24052-BE-XL-C3

Spherical Roller Bearing

Spherical roller bearing 240..-BE-XL,
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 | C3 (Group 3) | Internal clearance larger than CN |
| Relubrication facility | Standard | |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 260 mm | Bore diameter |
| D | 400 mm | Outside diameter |
| B | 140 mm | Width |
| C_r | 2.210.000 N | Basic dynamic load rating, radial |
| C_{0r} | 3.650.000 N | Basic static load rating, radial |
| C_{ur} | 345.000 N | Fatigue load limit, radial |
| n_G | 1.510 1/min | Limiting speed |
| n_{gr} | 880 1/min | Reference speed |
| $\approx m$ | 62,87 kg | Weight |



Mounting dimensions

| | | |
|--------------|----------|--------------------------------------|
| $d_{a \min}$ | 274,6 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 385,4 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 3 mm | Maximum recess radius |

Dimensions

| | | |
|------------|----------|------------------------------------|
| r_{\min} | 4 mm | Minimum chamfer dimension |
| D_1 | 349 mm | Bore diameter outer ring |
| d_2 | 288,3 mm | Raceway diameter of the inner ring |
| d_s | 6,3 mm | Diameter lubrication hole |
| n_s | 12,2 mm | Width of lubricating groove |

Temperature range

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

Calculation factors

| | | |
|-------|------|--|
| e | 0,32 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 2,09 | Dynamic axial load factor |
| Y_2 | 3,11 | Dynamic axial load factor |
| Y_0 | 2,04 | Static axial load factor |



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Large bearing



Static angular error and misalignment



Dynamic angular error and misalignment