



FAG

WS22215-E1-XL-2RSR-C3

Spherical Roller Bearing

Sealed spherical roller bearings WS222..-E1, lip seals on both sides, for continuous casting machines

X-life

Technical information



Your current product variant

| | | |
|---------------------------|--------------|---|
| Design | E1 | Without central rip |
| Bore type | Z | Cylindrical |
| Cage | JPA | Sheet metal cage |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Relubrication facility | Standard | |
| Type of Seal | 2RSR | Seals on both sides, normal temperature |
| Sealing - excess width | WS | Sealing - excess width |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 75 mm | Bore diameter |
| D | 130 mm | Outside diameter |
| B | 38 mm | Width |
| C_r | 216.000 N | Basic dynamic load rating, radial |
| C_{0r} | 237.000 N | Basic static load rating, radial |
| C_{ur} | 30.500 N | Fatigue load limit, radial |
| n_G | 1.630 1/min | Limiting speed |
| $\approx m$ | 1,99 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 84 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 121 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1,5 mm | Maximum recess radius |

Dimensions

| | | |
|------------|----------|------------------------------------|
| r_{\min} | 1,5 mm | Minimum chamfer dimension |
| D_1 | 120,2 mm | Bore diameter outer ring |
| d_2 | 85,6 mm | Raceway diameter of the inner ring |
| d_s | 3,2 mm | Diameter lubrication hole |
| n_s | 6,5 mm | Width of lubricating groove |

Temperature range






| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 100 °C | Operating temperature max. |

Calculation factors

| | | |
|-------|------|--|
| e | 0,22 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 3,1 | Dynamic axial load factor |
| Y_2 | 4,62 | Dynamic axial load factor |
| Y_0 | 3,03 | 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