



FAG

22217-E1A-XL-M-C3

Spherical Roller Bearing

Spherical roller bearing 222...-E1A-XL-M,
symmetric 2 outer ribs

X-life

Technical information



Your current product variant

| | | |
|---------------------------|--------------|-----------------------------------|
| Design | E1A | Without central rip |
| Bore type | Z | Cylindrical |
| Cage | M | Brass Cage |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Relubrication | Standard | |

Main Dimensions & Performance Data

| | | |
|----------|-------------|-----------------------------------|
| d | 85 mm | Bore diameter |
| D | 150 mm | Outside diameter |
| B | 36 mm | Width |
| C_r | 305.000 N | Basic dynamic load rating, radial |
| C_{0r} | 325.000 N | Basic static load rating, radial |
| C_{ur} | 39.000 N | Fatigue load limit, radial |
| n_G | 5.700 1/min | Limiting speed |
| n_{gr} | 3.450 1/min | Reference speed |
| m | 2,607 kg | Weight |





Mounting dimensions

| | | |
|--------------|--------|---------------------------------------|
| $d_{a \min}$ | 96 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 139 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2 mm | Maximum recess radius |
| $d_{a \max}$ | 99 mm | Maximum diameter of shaft shoulder |
| $d_{b \min}$ | 91 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 12 mm | Minimum cavity width of the sleeve |

Dimensions

| | | |
|------------|----------|------------------------------------|
| r_{\min} | 2 mm | Minimum chamfer dimension |
| D_1 | 135,4 mm | Bore diameter outer ring |
| d_2 | 99,7 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} | 200 °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 | 3,04 | Dynamic axial load factor |
| Y_2 | 4,53 | Dynamic axial load factor |
| Y_0 | 2,97 | Static axial load factor |

Additional information

| | |
|--------|-------------------|
| H317 | Adapter sleeve |
| AHX317 | Withdrawal sleeve |



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Static angular error and misalignment