



FAG

**22215-E1A-XL-M**

Spherical Roller Bearing

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

X-life

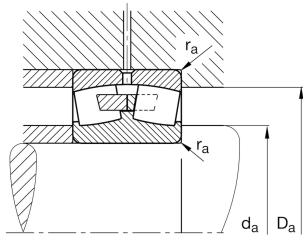
## Technical information



## Your current product variant

|                           |              |                           |
|---------------------------|--------------|---------------------------|
| Design                    | E1A          | Without central rip       |
| Bore type                 | Z            | Cylindrical               |
| Cage                      | M            | Brass Cage                |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Relubrication facility    | Standard     |                           |

## Main Dimensions &amp; Performance Data



|          |             |                                   |
|----------|-------------|-----------------------------------|
| d        | 75 mm       | Bore diameter                     |
| D        | 130 mm      | Outside diameter                  |
| B        | 31 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        |
| $n_G$    | 6.500 1/min | Limiting speed                    |
| $n_{gr}$ | 3.700 1/min | Reference speed                   |
| $m$      | 1,69 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                 |
| $d_{a \max}$ | 89 mm  | Maximum diameter of shaft shoulder    |
| $d_{b \min}$ | 80 mm  | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 12 mm  | Minimum cavity width of the sleeve    |

### Dimensions

|            |          |                                    |
|------------|----------|------------------------------------|
| $r_{\min}$ | 1,5 mm   | Minimum chamfer dimension          |
| $D_1$      | 117,7 mm | Bore diameter outer ring           |
| $d_2$      | 89,8 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 |
| $Y_1$ | 3,1  | Dynamic axial load factor  |
| $Y_2$ | 4,62 | Dynamic axial load factor  |
| $Y_0$ | 3,03 | Static axial load factor   |

### Additional information

|        |                   |
|--------|-------------------|
| H315   | Adapter sleeve    |
| AH315G | Withdrawal sleeve |



### Characteristics

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Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Static angular error and misalignment