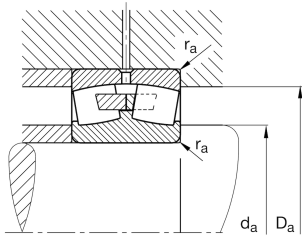
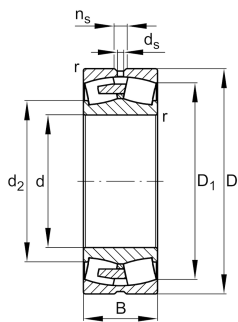
**FAG****23084-BEA-XL-MB1-H151** **Spherical Roller Bearing**

Spherical roller bearing 230...-BEA-XL-MB1,  
symmetric 2 outer ribs with rib washer

**X-life****Technical information****Your current product variant**

|                                      |              |                                       |
|--------------------------------------|--------------|---------------------------------------|
| Design                               | BEA          | With lose center lip ring             |
| Bore type                            | Z            | Cylindrical                           |
| Cage                                 | MB1          | Solid brass cage                      |
| Radial internal clearance            | CN (Group N) | Normal internal clearance             |
| Relubrication facility               | Standard     |                                       |
| Locating feature, bearing outer ring | H151         | 1 Locking feature, bearing outer ring |

**Main Dimensions & Performance Data**

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 420 mm      | Bore diameter                     |
| D               | 620 mm      | Outside diameter                  |
| B               | 150 mm      | Width                             |
| C <sub>r</sub>  | 3.650.000 N | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 6.300.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 520.000 N   | Fatigue load limit, radial        |
| n <sub>G</sub>  | 1.090 1/min | Limiting speed                    |
| n <sub>gr</sub> | 650 1/min   | Reference speed                   |
| ≈m              | 153,5 kg    | Weight                            |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 438 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 602 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 4 mm   | Maximum recess radius                |

### Dimensions

|            |          |                             |
|------------|----------|-----------------------------|
| $r_{\min}$ | 5 mm     | Minimum chamfer dimension   |
| $D_1$      | 560,7 mm | Bore diameter outer ring    |
| $d_s$      | 12,5 mm  | Diameter lubrication hole   |
| $n_s$      | 23,5 mm  | Width of lubricating groove |

### Temperature range

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

### Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,21 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 3,17 | Dynamic axial load factor                                                            |
| $Y_2$ | 4,72 | Dynamic axial load factor                                                            |
| $Y_0$ | 3,1  | 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