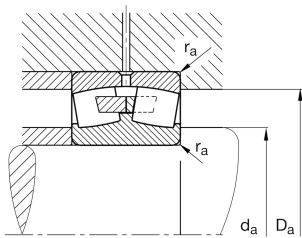
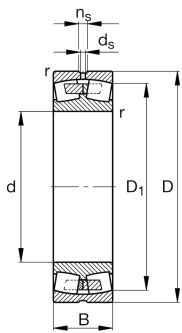
**FAG****23128-E1A-XL-M**

## Spherical Roller Bearing

Spherical roller bearings 231...-E1A, main dimensions to DIN 635-2

**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 feature     | Standard     |                           |

## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 140 mm      | Bore diameter                     |
| D               | 225 mm      | Outside diameter                  |
| B               | 68 mm       | Width                             |
| C <sub>r</sub>  | 760.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 1.010.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 90.000 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 3.000 1/min | Limiting speed                    |
| n <sub>gr</sub> | 1.930 1/min | Reference speed                   |
| ≈m              | 10,236 kg   | Weight                            |

## Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a min</sub> | 152 mm | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 213 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 2,1 mm | Maximum recess radius                |



Dimensions

|           |        |                             |
|-----------|--------|-----------------------------|
| $r_{min}$ | 2,1 mm | Minimum chamfer dimension   |
| $D_1$     | 201 mm | Bore diameter outer ring    |
| $d_s$     | 4,8 mm | Diameter lubrication hole   |
| $n_s$     | 9,5 mm | Width of lubricating groove |

Temperature range

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

Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,27 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 2,49 | Dynamic axial load factor                                                            |
| $Y_2$ | 3,71 | Dynamic axial load factor                                                            |
| $Y_0$ | 2,43 | Static axial load factor                                                             |

Characteristics

|                                                                                     |                                        |
|-------------------------------------------------------------------------------------|----------------------------------------|
|  | Radial load                            |
|  | Axial load in one direction            |
|  | Axial load in two directions           |
|  | Grease Lubrication                     |
|  | Oil Lubrication                        |
|  | Not sealed                             |
|  | Static angular error and misalignment  |
|  | Dynamic angular error and misalignment |