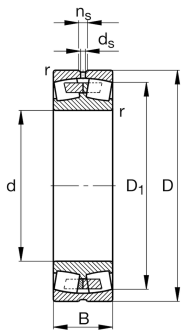
**FAG****23128-E1A-XL-M-C5**

Spherical Roller Bearing

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

**X-life**

## Technical information

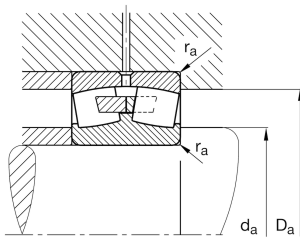


## Your current product variant

|                        |          |                     |
|------------------------|----------|---------------------|
| Design                 | E1A      | Without central rip |
| Bore type              | Z        | Cylindrical         |
| Cage                   | M        | Brass Cage          |
| Relubrication facility | Standard |                     |

## Main Dimensions &amp; Performance Data

|          |             |                                   |
|----------|-------------|-----------------------------------|
| d        | 140 mm      | Bore diameter                     |
| D        | 225 mm      | Outside diameter                  |
| B        | 68 mm       | Width                             |
| $C_r$    | 760.000 N   | Basic dynamic load rating, radial |
| $C_{0r}$ | 1.010.000 N | Basic static load rating, radial  |
| $C_{ur}$ | 90.000 N    | Fatigue load limit, radial        |
| $n_G$    | 3.000 1/min | Limiting speed                    |
| $n_{gr}$ | 1.930 1/min | Reference speed                   |
| $m$      | 10,4 kg     | Weight                            |



## Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 152 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 213 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 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 |