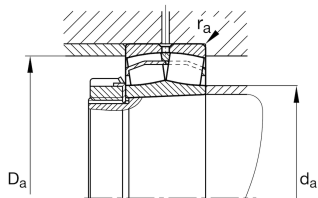
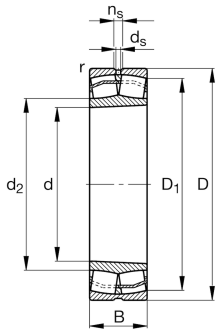
**FAG****X-life****23028-E1-XL-K-TVPB** **Spherical Roller Bearing**

Spherical roller bearings 230...-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

**Technical information****Your current product variant**

|                           |              |                           |
|---------------------------|--------------|---------------------------|
| Design                    | E1           | Without central rip       |
| Bore type                 | K            | Tapered, taper 1:12       |
| Cage                      | TVPB         | Plastic cage              |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Relubrication facility    | Standard     |                           |

**Main Dimensions & Performance Data**

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 140 mm      | Bore diameter                     |
| D               | 210 mm      | Outside diameter                  |
| B               | 53 mm       | Width                             |
| C <sub>r</sub>  | 570.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 800.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 77.000 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 3.450 1/min | Limiting speed                    |
| n <sub>gr</sub> | 2.390 1/min | Reference speed                   |
| ≈m              | 5,808 kg    | Weight                            |



### Mounting dimensions

|              |          |                                       |
|--------------|----------|---------------------------------------|
| $d_{a \min}$ | 148,8 mm | Minimum diameter shaft shoulder       |
| $D_{a \max}$ | 201,2 mm | Maximum diameter of housing shoulder  |
| $r_{a \max}$ | 2 mm     | Maximum recess radius                 |
| $B_{a \min}$ | 8 mm     | Minimum cavity width of the sleeve    |
| $d_{a \max}$ | 155 mm   | Maximum diameter of shaft shoulder    |
| $d_{b \min}$ | 147 mm   | Minimum cavity diameter of the sleeve |

### Dimensions

|            |          |                                    |
|------------|----------|------------------------------------|
| $r_{\min}$ | 2 mm     | Minimum chamfer dimension          |
| $D_1$      | 192,3 mm | Bore diameter outer ring           |
| $d_2$      | 155,4 mm | Raceway diameter of the inner 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. |
| $T_{\max}$ | 120 °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 |
| $Y_1$ | 3,07 | Dynamic axial load factor                                                            |
| $Y_2$ | 4,57 | Dynamic axial load factor                                                            |
| $Y_0$ | 3    | Static axial load factor                                                             |

### Additional information

|         |                   |
|---------|-------------------|
| H3028   | Adapter sleeve    |
| AHX3028 | Withdrawal sleeve |



## 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