



# PRODUCT DATASHEET

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## 22216EAE4

### Spherical Roller Bearings

#### Boundary Dimensions

|          |     |    |                   |
|----------|-----|----|-------------------|
| d        | 80  | mm | Bore diameter     |
| D        | 140 | mm | Outside diameter  |
| B        | 33  | mm | Width             |
| r (min.) | 2   | mm | Chamfer dimension |

#### Basic Load Ratings

|     |        |   |                           |
|-----|--------|---|---------------------------|
| Cr  | 264000 | N | Basic dynamic load rating |
| C0r | 275000 | N | Basic static load rating  |

#### Speeds

|                                     |      |       |                                                                     |
|-------------------------------------|------|-------|---------------------------------------------------------------------|
| Thermal Speed Rating (Oil-bath)     | 4000 | min-1 | Oil-bath lubrication subject to conditions outlined in ISO 15312    |
| Mechanical (forced-circulation oil) | 6000 | min-1 | Properly designed and controlled forced-circulation oil lubrication |
| Grease                              | 3600 | min-1 | Grease lubrication                                                  |
| Oil (Oil-bath)                      | 4500 | min-1 | Oil-bath lubrication                                                |

#### Abutment and Fillet Dimensions

|           |     |    |                                   |
|-----------|-----|----|-----------------------------------|
| da (min.) | 90  | mm | Diameter of shaft abutment        |
| da (max.) | 94  | mm | Diameter of shaft abutment        |
| Da (min.) | 126 | mm | Diameter of housing abutment      |
| Da (max.) | 130 | mm | Diameter of housing abutment      |
| ra (max.) | 2   | mm | Radius of shaft or housing fillet |

#### Calculation factors

|    |      |                    |
|----|------|--------------------|
| e  | 0.22 | Constant           |
| Y2 | 4.6  | Axial load Factors |
| Y3 | 3.1  | Axial load Factors |
| Y0 | 3    | Axial load Factors |

#### Mass

|              |      |    |              |
|--------------|------|----|--------------|
| Mass approx. | 2.01 | kg | Mass approx. |
|--------------|------|----|--------------|

