



# PRODUCT DATASHEET

Datasheet creation date: 2025/05/28 10:31 (UTC)



## 22318EAE4

### Spherical Roller Bearings

#### Parts Number

|             |
|-------------|
| 22318EAE4C3 |
|-------------|

#### Boundary Dimensions

|          |     |    |                   |
|----------|-----|----|-------------------|
| d        | 90  | mm | Bore diameter     |
| D        | 190 | mm | Outside diameter  |
| B        | 64  | mm | Width             |
| r (min.) | 3   | mm | Chamfer dimension |

#### Basic Load Ratings

|     |        |   |                           |
|-----|--------|---|---------------------------|
| Cr  | 665000 | N | Basic dynamic load rating |
| C0r | 705000 | N | Basic static load rating  |

#### Speeds

|                                     |      |       |                                                                     |
|-------------------------------------|------|-------|---------------------------------------------------------------------|
| Thermal Speed Rating (Oil-bath)     | 2800 | min-1 | Oil-bath lubrication subject to conditions outlined in ISO 15312    |
| Mechanical (forced-circulation oil) | 3000 | min-1 | Properly designed and controlled forced-circulation oil lubrication |
| Grease                              | 2400 | min-1 | Grease lubrication                                                  |
| Oil (Oil-bath)                      | 3000 | min-1 | Oil-bath lubrication                                                |

#### Abutment and Fillet Dimensions

|           |     |    |                                   |
|-----------|-----|----|-----------------------------------|
| da (min.) | 104 | mm | Diameter of shaft abutment        |
| da (max.) | 115 | mm | Diameter of shaft abutment        |
| Da (min.) | 163 | mm | Diameter of housing abutment      |
| Da (max.) | 176 | mm | Diameter of housing abutment      |
| ra (max.) | 2.5 | mm | Radius of shaft or housing fillet |

#### Calculation factors

|    |      |                    |
|----|------|--------------------|
| e  | 0.33 | Constant           |
| Y2 | 3.1  | Axial load Factors |
| Y3 | 2.1  | Axial load Factors |
| Y0 | 2    | Axial load Factors |

#### Mass

|              |      |    |              |
|--------------|------|----|--------------|
| Mass approx. | 8.56 | kg | Mass approx. |
|--------------|------|----|--------------|

