



PRODUCT DATASHEET

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22311EAKE4

Spherical Roller Bearings

Parts Number

| |
|--------------|
| 22311EAKE4C3 |
|--------------|

Boundary Dimensions

| | | | |
|----------|-----|----|-------------------|
| d | 55 | mm | Bore diameter |
| D | 120 | mm | Outside diameter |
| B | 43 | mm | Width |
| r (min.) | 2 | mm | Chamfer dimension |

Basic Load Ratings

| | | | |
|-----|--------|---|---------------------------|
| Cr | 292000 | N | Basic dynamic load rating |
| C0r | 292000 | N | Basic static load rating |

Speeds

| | | | |
|-------------------------------------|------|-------|---|
| Thermal Speed Rating (Oil-bath) | 4300 | 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 | 3800 | min-1 | Grease lubrication |
| Oil (Oil-bath) | 4800 | min-1 | Oil-bath lubrication |

Abutment and Fillet Dimensions

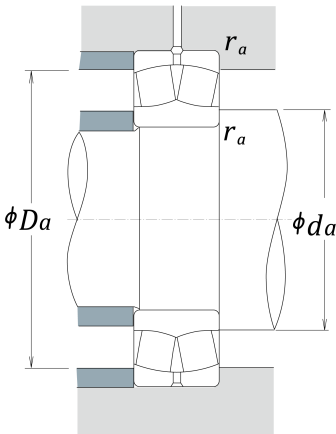
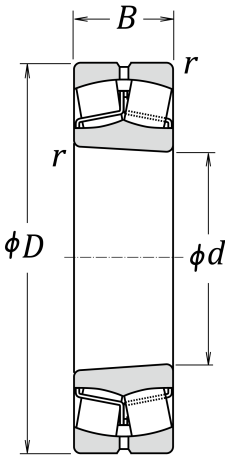
| | | | |
|-----------|-----|----|-----------------------------------|
| da (min.) | 65 | mm | Diameter of shaft abutment |
| da (max.) | 73 | mm | Diameter of shaft abutment |
| Da (min.) | 103 | mm | Diameter of housing abutment |
| Da (max.) | 110 | mm | Diameter of housing abutment |
| ra (max.) | 2 | mm | Radius of shaft or housing fillet |

Calculation factors

| | | |
|----|------|--------------------|
| e | 0.34 | Constant |
| Y2 | 2.9 | Axial load Factors |
| Y3 | 2 | Axial load Factors |
| Y0 | 1.9 | Axial load Factors |

Mass

| | | | |
|--------------|-----|----|--------------|
| Mass approx. | 2.3 | kg | Mass approx. |
|--------------|-----|----|--------------|



Associated products

| | | |
|-------------------|---------|-------------------|
| Adapter | H2311X | Adapter |
| Withdrawal sleeve | AHX2311 | Withdrawal sleeve |