## general data/description

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**article** 22209 E W33 **Art-No.** 48250

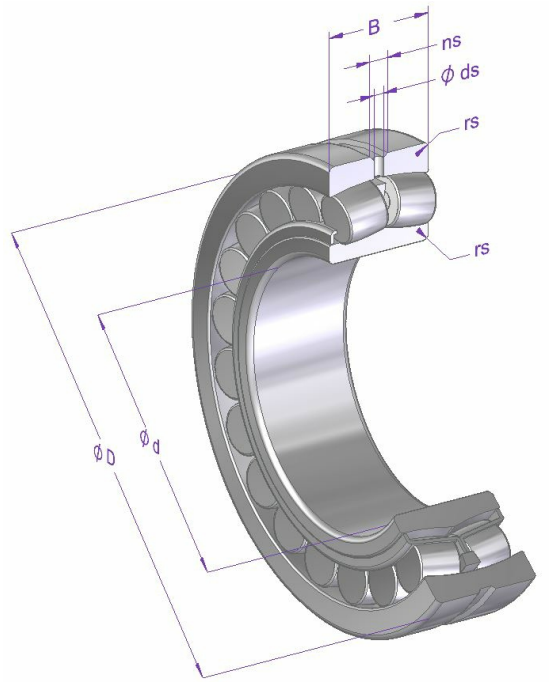
**brand** SKA **weight/kg** 0.56

**remark** Y-factors: Y1: Fa/Fr <= e / Y2: Fa/Fr > e / X-factors: X1: Fa/Fr <= e / X2: Fa/Fr > e.

**description**

| | |
|---|---|
| 22209 | Size |
| E | Reinforced version |
| W33 | Lubrication groove and -hole in outer ring |

## dimensions and tolerances




| dimension | Description | [mm] | tolerance [µm] | DIN/ISO |
|---|---|---|---|---|
| d | nominal inner diameter | 45 | 0 / -12 | 620-2 |
| D | nominal outer diameter | 85 | 0 / -15 | 620-2 |
| B | width | 23 | 0 / -120 | 620-2 |
| rs min. | minimal chamfer dimension | 1.1 | | 635-2 |
| ns | lubrication groove width | 5.5 | | |
| ds | diameter lubrication hole | 3x Ø3 | | |
| e | calculation factor | 0.26 | | 281 |
| Y1 | calculation factor | 2.6 | | 281 |
| Y2 | calculation factor | 3.87 | | 281 |
| Y0 | calculation factor | 2.54 | | 76 |
| X1 | calculation factor | 1 | | 281 |
| X2 | calculation factor | 0.67 | | 281 |
| X0 | calculation factor | 1 | | 76 |

## calculation and operating data

| load ratings | dynamic C [N] | fatique load limit load Cu [N] | DIN/ISO | static Co [N] | DIN/ISO |
|---|---|---|---|---|---|
| | 93800 | 12300 | 281 | 94200 | 76 |

| speed of rotation limit | reference n [1/min] | grease n [1/min] | oil n [1/min] |
|---|---|---|---|
| | | 6000 | 7500 |

| operating temperature | max. [°C] | min. [°C] |
|---|---|---|
| | 120 | -20 |

| bearing clearance | radial min. [µm] | max. [µm] |
|---|---|---|
| | 35 | 55 |

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## material specification

| description | material | DIN/ISO | hardness |
|---|---|---|---|
| Inner ring | 100Cr6 | 683-17 | 58-65 |
| Outer ring | 100Cr6 | 683-17 | 58-65 |
| Spherical rollers | 100Cr6 | 683-17 | 58-66 |
| Cage | Sheet steel | | |
| Guide ring | PM Steel | | |

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