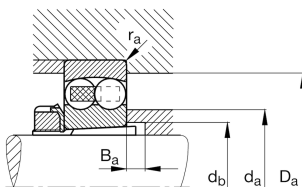
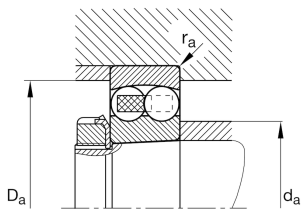
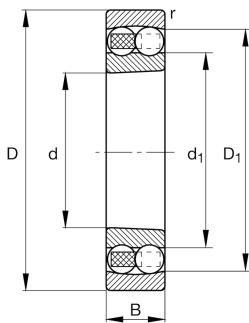


**FAG****2219-K-M-C3**

Self-aligning ball bearing

Self-aligning ball bearing 22..-K-M, tapered bore taper 1:12, solid brass cage

## Technical information



## Your current product variant

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| Bore type                 | K            | Tapered, taper 1:12               |
| Sealing                   | Without      | Not sealed                        |
| Cage                      | M            | Solid brass cage, ball guided     |
| Tolerance class           | PN           | Normal (ISO 492:2023)             |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Lubricant                 | Without      | Bearing not greased               |

## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 95 mm       | Bore diameter                     |
| D               | 170 mm      | Outside diameter                  |
| B               | 43 mm       | Width                             |
| C <sub>r</sub>  | 84.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 34.500 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 1.890 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 6.100 1/min | Limiting speed                    |
| n <sub>gr</sub> | 5.000 1/min | Reference speed                   |
| ≈m              | 4,142 kg    | Weight                            |



### Mounting dimensions

|              |        |                                       |
|--------------|--------|---------------------------------------|
| $d_{a \min}$ | 107 mm | Minimum diameter shaft shoulder       |
| $d_{a \max}$ | 114 mm | Maximum diameter shaft shoulder       |
| $D_{a \max}$ | 158 mm | Maximum diameter of housing shoulder  |
| $d_{b \min}$ | 102 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 9 mm   | Minimum cavity width of the sleeve    |
| $r_{a \max}$ | 2,1 mm | Maximum fillet radius                 |

### Dimensions

|            |           |                              |
|------------|-----------|------------------------------|
| $r_{\min}$ | 2,1 mm    | Minimum chamfer dimension    |
| $D_1$      | 147,86 mm | Shoulder diameter outer ring |
| $d_1$      | 118,9 mm  | Shoulder diameter inner ring |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 150 °C | Operating temperature max. |

### Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,27 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 2,33 | Dynamic axial load factor                                                            |
| $Y_2$ | 3,61 | Dynamic axial load factor                                                            |
| $Y_0$ | 2,45 | Static axial load factor                                                             |

### Additional information

H319

Adapter 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