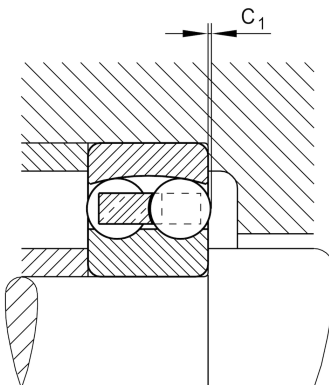
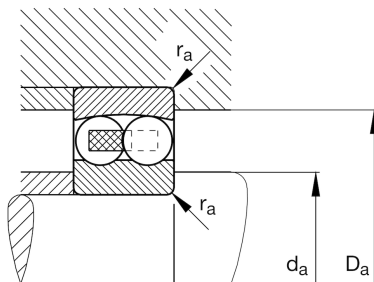
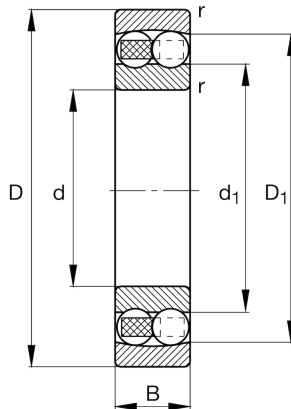


**FAG****1316-M**

Self-aligning ball bearing

Self-aligning ball bearing 13.-M, solid brass cage

## Technical information



## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 80 mm       | Bore diameter                     |
| D               | 170 mm      | Outside diameter                  |
| B               | 39 mm       | Width                             |
| C <sub>r</sub>  | 89.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 33.000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 1.870 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 6.200 1/min | Limiting speed                    |
| n <sub>gr</sub> | 4.500 1/min | Reference speed                   |
| ≈m              | 4,407 kg    | Weight                            |

## Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a min</sub> | 92 mm  | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 158 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 2,1 mm | Maximum fillet radius                |

## Dimensions

|                  |           |                              |
|------------------|-----------|------------------------------|
| r <sub>min</sub> | 2,1 mm    | Minimum chamfer dimension    |
| D <sub>1</sub>   | 144,25 mm | Shoulder diameter outer ring |
| d <sub>1</sub>   | 110,62 mm | Shoulder diameter inner ring |
| C <sub>1</sub>   | 0,1 mm    | Overhang rolling element     |

## Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 150 °C | Operating temperature max. |

## Calculation factors

|                |      |                                                                                  |
|----------------|------|----------------------------------------------------------------------------------|
| e              | 0,22 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y <sub>1</sub> | 2,88 | Dynamic axial load factor                                                        |
| Y <sub>2</sub> | 4,46 | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 3,02 | Static axial load factor                                                         |