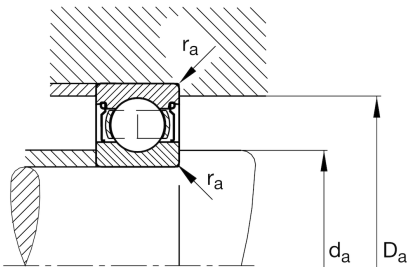
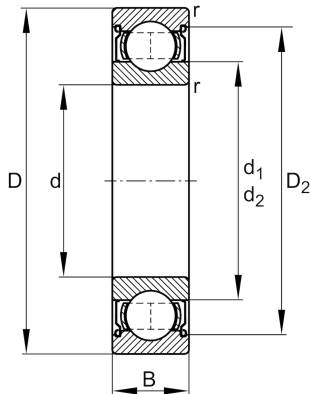


**FAG****61903-2Z**

Deep groove ball bearing

Deep groove ball bearing 619...-2Z, single row, shields, steel sheet metal cage

## Technical information



## Main Dimensions &amp; Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 17 mm        | Bore diameter                     |
| D               | 30 mm        | Outside diameter                  |
| B               | 7 mm         | Width                             |
| C <sub>r</sub>  | 4,590 N      | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 2,560 N      | Basic static load rating, radial  |
| C <sub>ur</sub> | 150 N        | Fatigue load limit, radial        |
| n <sub>G</sub>  | 29,000 1/min | Limiting speed                    |
| n <sub>gr</sub> | 17,800 1/min | Reference speed                   |
| ≈m              | 18 g         | Weight                            |

## Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a min</sub> | 19 mm  | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 28 mm  | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 0.3 mm | Maximum fillet radius                |

## Dimensions

|                  |         |                              |
|------------------|---------|------------------------------|
| r <sub>min</sub> | 0.3 mm  | Minimum chamfer dimension    |
| D <sub>1</sub>   | 26.8 mm | Shoulder diameter outer ring |
| D <sub>2</sub>   | 27.8 mm | Caliber diameter outer ring  |
| d <sub>1</sub>   | 21 mm   | Shoulder diameter inner ring |

## Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 120 °C | Operating temperature max. |

## Calculation factors

|                |      |                    |
|----------------|------|--------------------|
| f <sub>0</sub> | 14.7 | Calculation factor |
|----------------|------|--------------------|