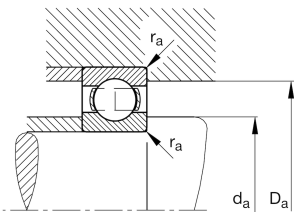
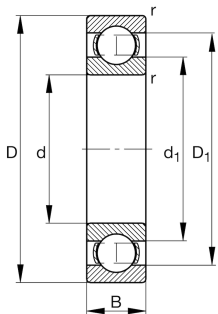


**FAG****HC6222-C3**

## Deep groove ball bearing

Deep groove ball bearing HC62, Hybrid bearing, single row, steel sheet metal cage

## Technical information



## Your current product variant

|                                  |              |                                                                       |
|----------------------------------|--------------|-----------------------------------------------------------------------|
| Material Bearing                 | HC           | Hybrid bearing, rolling elements ceramic, bearing rings made of steel |
| Type of Sealing                  | Without      | Not sealed                                                            |
| Cage                             | JN           | Steel sheet metal                                                     |
| Tolerance class                  | PN           | Normal (ISO 492:2023)                                                 |
| Dimensional / heat stabilization | S0           | Rings dimensional stabilized up to 150°                               |
| Lubricant                        | Without      | Bearing not greased                                                   |
| Radial internal clearance        | C3 (Group 3) | Internal clearance larger than CN                                     |
| Bore type                        | Z            | Cylindrical                                                           |

## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 110 mm      | Bore diameter                     |
| D               | 200 mm      | Outside diameter                  |
| B               | 38 mm       | Width                             |
| C <sub>r</sub>  | 176.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 149.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 4.750 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 5.400 1/min | Limiting speed                    |
| n <sub>gr</sub> | 4.950 1/min | Reference speed                   |
| m               | 3,99 kg     | Weight                            |



Mounting dimensions

|             |        |                                      |
|-------------|--------|--------------------------------------|
| $d_{a\min}$ | 122 mm | Minimum diameter shaft shoulder      |
| $D_{a\max}$ | 188 mm | Maximum diameter of housing shoulder |
| $r_{a\max}$ | 2,1 mm | Maximum fillet radius                |

Dimensions

|            |           |                              |
|------------|-----------|------------------------------|
| $r_{\min}$ | 2,1 mm    | Minimum chamfer dimension    |
| $D_1$      | 171,68 mm | Shoulder diameter outer ring |
| $d_1$      | 138,42 mm | Shoulder diameter inner ring |

Temperature range

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

Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 18,2 | Calculation factor |
|-------|------|--------------------|

Characteristics

|                                                                                     |                              |
|-------------------------------------------------------------------------------------|------------------------------|
|  | Radial load                  |
|  | Axial load in one direction  |
|  | Axial load in two directions |
|  | Grease Lubrication           |
|  | Oil Lubrication              |
|  | Not sealed                   |
|  | Current insulated            |