



FAG

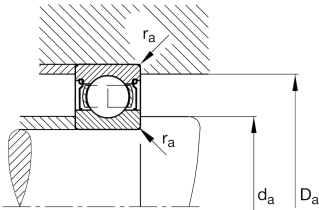
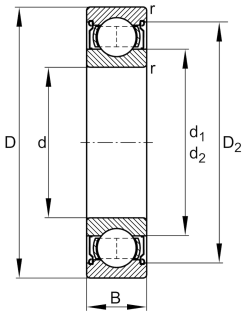
683-2Z-HLC

Deep groove ball bearing

Deep groove ball bearing 68...2Z, single row, shields, steel sheet metal cage

Schaeffler ID:  
0554676280000

Technical information



Your current product variant

|                                  |                    |                                         |
|----------------------------------|--------------------|-----------------------------------------|
| Logistical code                  | HLC                | -                                       |
| Sealing                          | 2Z                 | Non-contact shield on both sides        |
| Cage                             | J                  | Steel sheet metal                       |
| Tolerance class                  | PN                 | Normal (PN)                             |
| Dimensional / heat stabilization | SN                 | Rings dimensional stabilized up to 120° |
| Lubricant                        | Lubricating grease |                                         |
| Radial internal clearance        | CN (Group N)       | Normal internal clearance               |
| Bore type                        | Z                  | Cylindrical                             |

Main Dimensions & Performance Data

|                 |               |                                   |
|-----------------|---------------|-----------------------------------|
| d               | 3 mm          | Bore diameter                     |
| D               | 7 mm          | Outside diameter                  |
| B               | 3 mm          | Width                             |
| C <sub>r</sub>  | 311 N         | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 112 N         | Basic static load rating, radial  |
| C <sub>ur</sub> | 2,95 N        | Fatigue load limit, radial        |
| n <sub>G</sub>  | 103.000 1/min | Limiting speed                    |
| ≈m              | 0,001 kg      | Weight                            |



Mounting dimensions

|             |        |                                      |
|-------------|--------|--------------------------------------|
| $d_{a\min}$ | 3,6 mm | Minimum diameter shaft shoulder      |
| $D_{a\max}$ | 6,4 mm | Maximum diameter of housing shoulder |
| $r_{a\max}$ | 0,1 mm | Maximum fillet radius                |

Dimensions

|            |         |                             |
|------------|---------|-----------------------------|
| $r_{\min}$ | 0,1 mm  | Minimum chamfer dimension   |
| $D_2$      | 6,35 mm | Caliber diameter outer ring |
| $d_2$      | 3,85 mm | Caliber diameter inner ring |

Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 120 °C | Operating temperature max. |

Calculation factors

|       |     |                    |
|-------|-----|--------------------|
| $f_0$ | 7,1 | Calculation factor |
|-------|-----|--------------------|

Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Lifetime lubrication, freedom from maintenance
-  Grease Lubrication
-  Sealed on both sides