

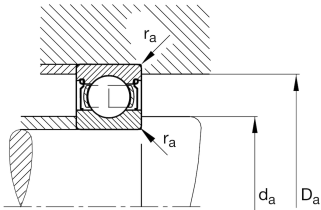
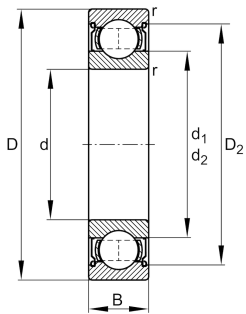
**FAG****61808-2Z-HLC** [🔗](#)

Deep groove ball bearing

Deep groove ball bearing 618...-2Z, single row, shields, steel sheet metal cage

Schaeffler ID:  
0009058100000

## 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 &amp; Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 40 mm        | Bore diameter                     |
| D               | 52 mm        | Outside diameter                  |
| B               | 7 mm         | Width                             |
| C <sub>r</sub>  | 4.930 N      | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 4.180 N      | Basic static load rating, radial  |
| C <sub>ur</sub> | 196 N        | Fatigue load limit, radial        |
| n <sub>G</sub>  | 16.400 1/min | Limiting speed                    |
| n <sub>gr</sub> | 8.600 1/min  | Reference speed                   |
| ≈m              | 34 g         | Weight                            |



Mounting dimensions

|             |        |                                      |
|-------------|--------|--------------------------------------|
| $d_{a\min}$ | 42 mm  | Minimum diameter shaft shoulder      |
| $D_{a\max}$ | 50 mm  | Maximum diameter of housing shoulder |
| $r_{a\max}$ | 0,3 mm | Maximum fillet radius                |

Dimensions

|            |          |                              |
|------------|----------|------------------------------|
| $r_{\min}$ | 0,3 mm   | Minimum chamfer dimension    |
| $D_2$      | 48,94 mm | Caliber diameter outer ring  |
| $d_1$      | 43,21 mm | Shoulder diameter inner ring |

Temperature range

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

Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 14,6 | 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                           |