

**FAG****S61809-2Z>N**

## Deep groove ball bearing

Deep groove ball bearing S618..-2Z,  
corrosion-resistant materials, single row,  
shields, steel sheet metal cage

## Technical information



## Your current product variant

|                                  |                    |   |
|----------------------------------|--------------------|---|
| Version code                     | >N                 | Not marked on bearing                   |
| Material Bearing                 | S                  | Stainless steel                         |
| Sealing                          | 2Z                 | Non-contact shield on both sides        |
| Cage                             | JN                 | Steel sheet metal                       |
| Tolerance class                  | PN                 | Normal (ISO 492:2023)                   |
| 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           | 45 mm        | Bore diameter                     |
| D           | 58 mm        | Outside diameter                  |
| B           | 7 mm         | Width                             |
| $C_r$       | 4.900 N      | Basic dynamic load rating, radial |
| $C_{0r}$    | 4.350 N      | Basic static load rating, radial  |
| $C_{ur}$    | 255 N        | Fatigue load limit, radial        |
| $n_G$       | 14.600 1/min | Limiting speed                    |
| $n_{gr}$    | 7.300 1/min  | Reference speed                   |
| $\approx m$ | 36 g         | Weight                            |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 47 mm  | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 56 mm  | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 0,3 mm | Maximum fillet radius                |

### Dimensions

|            |         |                              |
|------------|---------|------------------------------|
| $r_{\min}$ | 0,3 mm  | Minimum chamfer dimension    |
| $D_1$      | 53,7 mm | Shoulder diameter outer ring |
| $D_2$      | 55,1 mm | Caliber diameter outer ring  |
| $d_1$      | 49 mm   | Shoulder diameter inner ring |

### Temperature range

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

### Calculation factors

|       |    |                    |
|-------|----|--------------------|
| $f_0$ | 16 | 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                           |
|  | Protected against rust                         |