

**FAG****6209-Z**

Deep groove ball bearing

Deep groove ball bearing 62...-Z, single row, shield, steel sheet metal cage

Technical information



Your current product variant

| | | |
|----------------------------------|--------------|---|
| Sealing | Z | Non-contact shield on one Side |
| Cage | JN | Steel sheet metal |
| Tolerance class | PN | Normal (ISO 492:2023) |
| Dimensional / heat stabilization | SN | Rings dimensional stabilized up to 120° |
| Lubricant | Without | Bearing not greased |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Bore type | Z | Cylindrical |

Main Dimensions & Performance Data

| | | |
|-------------|--------------|-----------------------------------|
| d | 45 mm | Bore diameter |
| D | 85 mm | Outside diameter |
| B | 19 mm | Width |
| C_r | 33.000 N | Basic dynamic load rating, radial |
| C_{0r} | 20.300 N | Basic static load rating, radial |
| C_{ur} | 1.400 N | Fatigue load limit, radial |
| n_G | 11.600 1/min | Limiting speed |
| n_{gr} | 8.900 1/min | Reference speed |
| $\approx m$ | 405,9 g | Weight |



Mounting dimensions

| | | |
|--------------|-------|--------------------------------------|
| $d_{a \min}$ | 52 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 78 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1 mm | Maximum fillet radius |

Dimensions

| | | |
|------------|----------|------------------------------|
| r_{\min} | 1,1 mm | Minimum chamfer dimension |
| D_1 | 71,86 mm | Shoulder diameter outer ring |
| D_2 | 74,62 mm | Caliber diameter outer ring |
| d_1 | 57,2 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 | 14,3 | Calculation factor |
|-------|------|--------------------|

Characteristics

| | |
|---|------------------------------|
|  | Radial load |
|  | Axial load in one direction |
|  | Axial load in two directions |
|  | Grease Lubrication |
|  | Oil Lubrication |
|  | Sealed on one side |