

**FAG****S61808-2RSR>N**

Deep groove ball bearing

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

Technical information

**Your current product variant**

| | | |
|----------------------------------|--------------------|---|
| Version code | >N | Not marked on bearing |
| Material Bearing | S | Stainless steel |
| Sealing | 2RSR | Contact seal 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 & Performance Data

| | | |
|-----------------|-------------|-----------------------------------|
| d | 40 mm | Bore diameter |
| D | 52 mm | Outside diameter |
| B | 7 mm | Width |
| C _r | 5.400 N | Basic dynamic load rating, radial |
| C _{0r} | 4.400 N | Basic static load rating, radial |
| C _{ur} | 255 N | Fatigue load limit, radial |
| n _G | 6.100 1/min | Limiting speed |
| ≈m | 35 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_1 | 48,4 mm | Shoulder diameter outer ring |
| D_2 | 49,7 mm | Caliber diameter outer ring |
| d_1 | 43,6 mm | Shoulder diameter inner ring |

Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 100 °C | Operating temperature max. |

Calculation factors

| | | |
|-------|------|--------------------|
| f_0 | 16,3 | Calculation factor |
|-------|------|--------------------|

Characteristics

-  F_r Radial load
-  F_a Axial load in one direction
-  F_a Axial load in two directions
-  L_h Lifetime lubrication, freedom from maintenance
-  Grease Lubrication
-  Sealed on both sides
-  Protected against rust