

**FAG****6307-RSR**

Deep groove ball bearing

Deep groove ball bearing 63...RSR, single row, seal, steel sheet metal cage

Technical information

**Your current product variant**

| | | |
|----------------------------------|--------------|-----------------------------------------|
| Type of Seal | RSR | Contact seal on one side |
| Cage | JN | Steel sheet metal |
| Tolerance class | PN | Normal (PN) |
| 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 | 35 mm | Bore diameter |
| D | 80 mm | Outside diameter |
| B | 21 mm | Width |
| C_r | 35.500 N | Basic dynamic load rating, radial |
| C_{0r} | 19.100 N | Basic static load rating, radial |
| C_{ur} | 1.290 N | Fatigue load limit, radial |
| n_G | 5.400 1/min | Limiting speed |
| m | 0,455 kg | Weight |

Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 44 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 71 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1,5 mm | Maximum fillet radius |



Dimensions

| | | |
|------------|---------|------------------------------|
| r_{\min} | 1,5 mm | Minimum chamfer dimension |
| D_1 | 65,6 mm | Shoulder diameter outer ring |
| D_2 | 67,6 mm | Caliber diameter outer ring |
| d_1 | 49,3 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 | 13,1 | Calculation factor |
|-------|------|--------------------|

Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Sealed on one side