

**FAG****6318-Z**

Deep groove ball bearing

Deep groove ball bearing 63...-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 | S0 | Rings dimensional stabilized up to 150° |
| Lubricant | Without | Bearing not greased |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Bore type | Z | Cylindrical |

Main Dimensions & Performance Data

| | | |
|-----------------|-------------|-----------------------------------|
| d | 90 mm | Bore diameter |
| D | 190 mm | Outside diameter |
| B | 43 mm | Width |
| C _r | 142.000 N | Basic dynamic load rating, radial |
| C _{0r} | 102.000 N | Basic static load rating, radial |
| C _{ur} | 5.900 N | Fatigue load limit, radial |
| n _G | 4.900 1/min | Limiting speed |
| n _{gr} | 5.100 1/min | Reference speed |
| ≈m | 5,48 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 104 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 176 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2,5 mm | Maximum fillet radius |

Dimensions

| | | |
|------------|-----------|------------------------------|
| r_{\min} | 3 mm | Minimum chamfer dimension |
| D_1 | 157,18 mm | Shoulder diameter outer ring |
| D_2 | 160,74 mm | Caliber diameter outer ring |
| d_1 | 123,3 mm | Shoulder diameter inner ring |

Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 150 °C | Operating temperature max. |

Calculation factors

| | | |
|-------|------|--------------------|
| f_0 | 13,9 | Calculation factor |
|-------|------|--------------------|

Characteristics

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