

**FAG****51109**

Axial deep groove ball bearing

Axial deep groove ball bearing 511, single direction, steel sheet metal cage

Technical information



Your current product variant

| | | |
|----------------------------------|----|---|
| Cage | JP | Steel sheet metal |
| Tolerance class | PN | Tolerance class PN, acc. to DIN 620 |
| Dimensional / heat stabilization | S0 | Rings dimensional stabilized up to 150° |

Main Dimensions & Performance Data

| | | |
|-----------------|-------------|----------------------------------|
| d | 45 mm | Inner diameter shaft washer |
| D | 65 mm | Outer diameter housing washer |
| T | 14 mm | Height |
| C _a | 26.500 N | Basic dynamic load rating, axial |
| C _{0a} | 69.000 N | Basic static load rating, axial |
| C _{ua} | 3.100 N | Fatigue load limit, axial |
| n _G | 7.100 1/min | Limiting speed |
| n _{gr} | 5.800 1/min | Reference speed |
| m | 0,151 kg | Weight |

Mounting dimensions

| | | |
|--------------------|--------|--------------------------------------|
| d _{a min} | 57 mm | Minimum diameter shaft shoulder |
| D _{a max} | 53 mm | Maximum diameter of housing shoulder |
| r _{a max} | 0,6 mm | Maximum fillet radius |



Dimensions

| | | |
|-----------|--------|-------------------------------|
| r_{min} | 0,6 mm | Minimum chamfer dimension |
| D_1 | 47 mm | Inner diameter housing washer |
| d_1 | 65 mm | Outer diameter shaft washer |

Temperature range

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

Calculation factors

| | | |
|---|-------|---------------------|
| A | 0,025 | Minimum load factor |
|---|-------|---------------------|

Characteristics

-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed