

**FAG****51407**

Axial deep groove ball bearing

Axial deep groove ball bearing 514, 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 | 35 mm | Inner diameter shaft washer |
| D | 80 mm | Outer diameter housing washer |
| T | 32 mm | Height |
| C_a | 76.000 N | Basic dynamic load rating, axial |
| C_{0a} | 126.000 N | Basic static load rating, axial |
| C_{ua} | 5.700 N | Fatigue load limit, axial |
| n_G | 3.600 1/min | Limiting speed |
| n_{gr} | 8.500 1/min | Reference speed |
| $\approx m$ | 0,739 kg | Weight |

Mounting dimensions

| | | |
|--------------|-------|--------------------------------------|
| $d_{a \min}$ | 62 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 53 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1 mm | Maximum filled radius |



Dimensions

| | | |
|-----------|--------|-------------------------------|
| r_{min} | 1,1 mm | Minimum chamfer dimension |
| D_1 | 37 mm | Inner diameter housing washer |
| d_1 | 80 mm | Outer diameter shaft washer |

Temperature range

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

Calculation factors

| | | |
|---|------|---------------------|
| A | 0,11 | Minimum load factor |
|---|------|---------------------|

Characteristics

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