

**FAG****51128**

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 | Normal (ISO 492:2023) |
| Dimensional / heat stabilization | S0 | Rings dimensional stabilized up to 150° |

Main Dimensions & Performance Data

| | | |
|-----------------|-------------|----------------------------------|
| d | 140 mm | Inner diameter shaft washer |
| D | 180 mm | Outer diameter housing washer |
| T | 31 mm | Height |
| C _a | 111,000 N | Basic dynamic load rating, axial |
| C _{0a} | 400,000 N | Basic static load rating, axial |
| C _{ua} | 14,600 N | Fatigue load limit, axial |
| n _G | 2,750 1/min | Limiting speed |
| n _{gr} | 2,330 1/min | Reference speed |
| m | 1.852 kg | Weight |

Mounting dimensions

| | | |
|--------------------|--------|--------------------------------------|
| d _{a min} | 164 mm | Minimum diameter shaft shoulder |
| D _{a max} | 156 mm | Maximum diameter of housing shoulder |
| r _{a max} | 1 mm | Maximum fillet radius |



Dimensions

| | | |
|------------|--------|-------------------------------|
| r_{\min} | 1 mm | Minimum chamfer dimension |
| D_1 | 142 mm | Inner diameter housing washer |
| d_1 | 178 mm | Outer diameter shaft washer |

Temperature range

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

Calculation factors

| | | |
|---|------|---------------------|
| A | 0.83 | Minimum load factor |
|---|------|---------------------|

Characteristics

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