

**FAG****6311-M-J20AA-C4**

Deep groove ball bearing

Deep groove ball bearing 63..-M-J20AA,
single row, solid brass cage, ceramic coated

Technical information



Your current product variant

| | | |
|----------------------------------|--------------|---|
| Sealing | Without | Not sealed |
| Cage | M | Solid brass cage, rolling element guided |
| 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 | C4 (Group 4) | Internal clearance larger than C3 |
| Bore type | Z | Cylindrical |
| Coating | J20AA | Current insulation, outer ring ceramic coated |

Main Dimensions & Performance Data

| | | |
|-----------------|--------------|-----------------------------------|
| d | 55 mm | Bore diameter |
| D | 120 mm | Outside diameter |
| B | 29 mm | Width |
| C _r | 83.000 N | Basic dynamic load rating, radial |
| C _{0r} | 47.500 N | Basic static load rating, radial |
| C _{ur} | 3.250 N | Fatigue load limit, radial |
| n _G | 11.000 1/min | Limiting speed |
| n _{gr} | 7.100 1/min | Reference speed |
| ≈m | 1,616 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 66 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 109 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2 mm | Maximum fillet radius |

Dimensions

| | | |
|------------|----------|------------------------------|
| r_{\min} | 2 mm | Minimum chamfer dimension |
| D_1 | 101,4 mm | Shoulder diameter outer ring |
| d_1 | 75,2 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 | 12,9 | Calculation factor |
|-------|------|--------------------|

Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Current insulated