

**FAG****6338-M-C3**

Deep groove ball bearing

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

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 | S1 | Rings dimensional stabilized up to 200° |
| Lubricant | Without | Bearing not greased |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Bore type | Z | Cylindrical |

Main Dimensions & Performance Data

| | | |
|----------|-------------|-----------------------------------|
| d | 190 mm | Bore diameter |
| D | 400 mm | Outside diameter |
| B | 78 mm | Width |
| C_r | 380,000 N | Basic dynamic load rating, radial |
| C_{0r} | 455,000 N | Basic static load rating, radial |
| C_{ur} | 18,700 N | Fatigue load limit, radial |
| n_G | 2,850 1/min | Limiting speed |
| n_{gr} | 2,290 1/min | Reference speed |
| m | 50.4 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 210 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 380 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 4 mm | Maximum fillet radius |

Dimensions

| | | |
|------------|-----------|------------------------------|
| r_{\min} | 5 mm | Minimum chamfer dimension |
| D_1 | 334 mm | Shoulder diameter outer ring |
| d_1 | 258.15 mm | Shoulder diameter inner ring |

Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 200 °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 |
|  | Not sealed |
|  | Large bearing |