

**FAG****240/800-B-MB**

Spherical Roller Bearing

Spherical roller bearing 240..-B-MB,
symmetric 3 ribs

Technical information



Your current product variant

| | | |
|---------------------------|--------------|---------------------------|
| Design | B | With fixed central rib |
| Bore type | Z | Cylindrical |
| Cage | MB | Solid brass cage |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Relubrication facility | Standard | |

Main Dimensions & Performance Data

| | | |
|----------|--------------|-----------------------------------|
| d | 800 mm | Bore diameter |
| D | 1.150 mm | Outside diameter |
| B | 345 mm | Width |
| C_r | 11.600.000 N | Basic dynamic load rating, radial |
| C_{0r} | 28.500.000 N | Basic static load rating, radial |
| C_{ur} | 1.830.000 N | Fatigue load limit, radial |
| n_G | 420 1/min | Limiting speed |
| n_{gr} | 188 1/min | Reference speed |
| m | 1.190 kg | Weight |

Mounting dimensions

| | | |
|--------------|----------|--------------------------------------|
| $d_{a \min}$ | 828 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 1.122 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 6 mm | Maximum recess radius |





Dimensions

| | | |
|------------|------------|-----------------------------|
| r_{\min} | 7,5 mm | Minimum chamfer dimension |
| D_1 | 1.034,1 mm | Bore diameter outer ring |
| d_s | 12,5 mm | Diameter lubrication hole |
| n_s | 23,5 mm | Width of lubricating groove |

Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 200 °C | Operating temperature max. |

Calculation factors

| | | |
|-------|------|--|
| e | 0,29 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 2,33 | Dynamic axial load factor |
| Y_2 | 3,47 | Dynamic axial load factor |
| Y_0 | 2,28 | Static axial load factor |

Characteristics

| | |
|---|--|
|  | Radial load |
|  | Axial load in one direction |
|  | Axial load in two directions |
|  | Grease Lubrication |
|  | Oil Lubrication |
|  | Not sealed |
|  | Large bearing |
|  | Static angular error and misalignment |
|  | Dynamic angular error and misalignment |