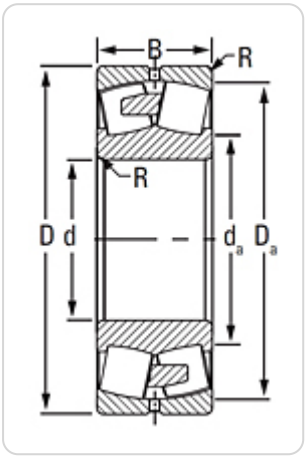
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# Part Number 22332EMBW33, Spherical Roller Bearings - Brass Cage






## Key Features

- Longer bearing life achieved from higher capacity (vs. competitors)
- Longer lubrication life achieved from lower operating temperatures due to reduced internal friction and running torque from cage guided rollers
- Better contaminant purging from slots on cage face helps extend bearing life

- Greater fatigue strength and increased wear resistance provide tougher protection against shock and acceleration loading from a brass cage

## Key Dimensions

| | |
|---|---|
| **Bore (d)** | 160 mm |
| **O.D. (D)** | 340 mm<br>13.3858 in |
| **Width (B)** | 114 mm<br>4.4882 in |
| **Dynamic Radial Load Rating - 1M Revs (C1)** | 1800000 N<br>405000 lbf |
| **e Factor**[1] | 0.32 |

## Other Dimensions

| | |
|---|---|
| **Max Shaft Fillet Radius**[2] | 3 mm<br>0.120 in |
| **Shaft Backing Shoulder Diameter** | 207 mm<br>8.1000 in |
| **Housing Backing Shoulder Diameter** | 306 mm<br>12.000 in |
| **Design Unit** | Metric |

## Ratings

| | |
|---|---|
| **Static Radial Load Rating (C0)** | 2110000 N<br>475000 lbf |
| **Thermal Reference Speed - Grease** | 1400 rpm |
| **Thermal Reference Speed - Oil**[3] | 1500 rpm |

# Factors

| | |
|---|---|
| **Y0 Factor**[4] | 2.04 |
| **Y1 Factor** [5] | 2.09 |
| **Y2 Factor** [6] | 3.11 |
| **Geometry Factor (Cg)** [7] | 0.0920 |

[1] These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

[2] Maximum housing fillet radius that bearing corners will clear.

[3] See thermal speed ratings in the engineering section.

[4] These factors apply for both inch and metric calculations. See engineering

[5] These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

[6] These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

[7] Geometry constant for Lubrication Life Adjustment Factor a3l.