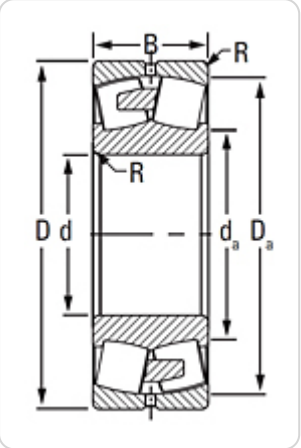
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# Part Number 23976EMBW33C3, Spherical Roller Bearings - Brass Cage






## 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)** | 380 mm |
| **O.D. (D)** | 520 mm<br>20.472 in |
| **Width (B)** | 106 mm<br>4.1730 in |
| **Dynamic Radial Load Rating - 1M Revs (C1)** | 2130000 N<br>479000 lbf |
| **e Factor**[1] | 0.18 |

## Other Dimensions

| | |
|---|---|
| **Max Shaft Fillet Radius**[2] | 3 mm<br>0.120 in |
| **Shaft Backing Shoulder Diameter** | 416 mm<br>16.4000 in |
| **Housing Backing Shoulder Diameter** | 488 mm<br>19.2000 in |
| **Design Unit** | Metric |

## Ratings

| | |
|---|---|
| **Static Radial Load Rating (C0)** | 3940000 N<br>886000 lbf |
| **Thermal Reference Speed - Grease** | 740 rpm |
| **Thermal Reference Speed - Oil**[3] | 870 rpm |

# Factors

| | |
|---|---|
| **Y0 Factor**[4] | 3.72 |
| **Y1 Factor** [5] | 3.8 |
| **Y2 Factor** [6] | 5.66 |
| **Geometry Factor (Cg)** [7] | 0.1405 |

[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.