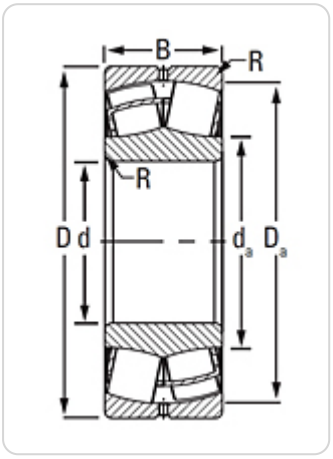
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# Part Number 24136EJW33C4, Spherical Roller Bearings - Steel Cage






## 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 hardened steel cage

## Key Dimensions

| | |
|---|---|
| **UPC Code** | 087796260856 |
| **Bore (d)** | 180 mm |
| **O.D. (D)** | 300 mm<br>11.8110 in |
| **Width (B)** | 118 mm<br>4.6457 in |
| **Dynamic Radial Load Rating - 1M Revs (C1)** | 1650000 N<br>370000 lbf |
| **e Factor**[1] | 0.36 |

## Other Dimensions

| | |
|---|---|
| **Max Shaft Fillet Radius**[2] | 2.5 mm<br>0.100 in |
| **Shaft Backing Shoulder Diameter** | 204 mm<br>8.1000 in |
| **Housing Backing Shoulder Diameter** | 273.000 mm<br>10.7000 in |
| **Design Unit** | Metric |

## Ratings

| | |
|---|---|
| **Static Radial Load Rating (C0)** | 2450000 N<br>550000 lbf |
| **Thermal Reference Speed - Oil**[3] | 960 rpm |
| **Thermal Reference Speed - Grease** | 890 rpm |

# Factors

| | |
|---|---|
| **Y0 Factor**[4] | 1.85 |
| **Y1 Factor** [5] | 1.9 |
| **Y2 Factor**[6] | 2.82 |
| **Geometry Factor (Cg)** [7] | 0.0982 |

[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.