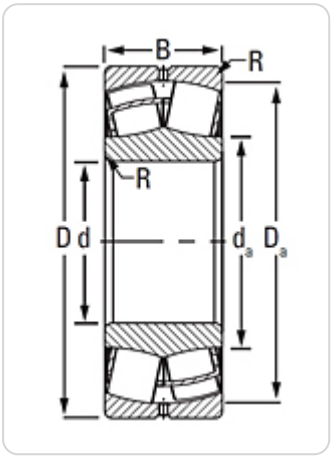
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com (mailto:CustomerCAD@timken.com) • **Web site:** www.timken.com (http://www.timken.com)

Part Number 22220EJW33, Spherical Roller Bearings - Steel Cage





Spherical Roller Bearing | Metric Series | 100.000mm Bore | 180.000mm OD | 46.000mm Width | Open | Cylindrical Bore | Steel Cage | C0 Clearance | Bearing contains application features

Key Dimensions

UPC Code	087796025141

Bore (d)	100 mm
O.D. (D)	180 mm 7.0866 in
Width (B)	46 mm 1.8110 in
Dynamic Radial Load Rating - 1M Revs (C1)	435000 N 97700 lbf
e Factor[1]	0.24

Other Dimensions

Max Shaft Fillet Radius[2]	2.0 mm 0.080 in
Shaft Backing Shoulder Diameter	120 mm 4.7000 in
Housing Backing Shoulder Diameter	163.000 mm 6.400 in
Design Unit	Metric

Ratings

Static Radial Load Rating (C0)	502000 N 113000 lbf
Thermal Reference Speed - Oil[3]	3800 rpm
Thermal Reference Speed - Grease	3100 rpm

Factors

Y0 Factor[4]	2.78
Y1 Factor [5]	2.85
Y2 Factor[6]	4.24
Geometry Factor (Cg) [7]	0.0694

[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.