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Part Number 22320EJW33, Spherical Roller Bearings - Steel Cage

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Spherical bearings are designed to manage high radial loads even when misalignment, poor lubrication, contamination, extreme speeds or critical application stresses are present.



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Unit of Measure **Both** ▾

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Specifications

Design Unit	METRIC
Cage Type	EJ
UPC Code	087796027015
Cage Material	Steel
Superseded Part	22320CJW33W22C3
Manufacturing Part Number	22320EJW33W22C3

TIMKEN[ABOUT](#)[PRODUCTS](#)[MARKETS](#)[CAREERS](#)[INVESTORS](#)[CONTACT](#)

d - Bore	100.00 mm 3.9370 in
D - Outer Diameter	214.993 mm 8.4643 in
B' - Inner Ring Width	73 mm 2.874 in
B - Outer Ring Width	73.0 mm 2.8740 in

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R - Inner Ring "To Clear" Radius¹	2.5 mm 0.100 in
r - Outer Ring "To Clear" Radius²	2.5 mm 0.100 in
da - Inner Ring Backing Diameter	131.000 mm 5.100 in
Da - Outer Ring Backing Diameter	193.000 mm 7.6 in

Basic Load Ratings

C0 - Static Radial Rating	910000 N 205000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	804000 N 181000 lbf

Factors

e - ISO Factor³	0.33
Y0 - ISO Factor⁴	2.02
Y1 - ISO Factor⁵	2.06
Y2 - ISO Factor⁶	3.07
Reference Thermal Speed Rating (Grease)	2400
Reference Thermal Speed Rating (Oil)⁷	2800
Cg - Geometry Factor⁸	0.0746

¹ Maximum housing fillet radius that bearing corners will clear.

² Maximum shaft fillet radius that bearing corners will clear.

³ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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 See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a3l.

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