



The Timken Company

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Part Number 26250KEMBW33W40IC4, Spherical Roller Bearings - Brass Cage

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



[Specifications](#) | [Dimensions](#) | [Abutment and Fillet Dimensions](#) | [Basic Load Ratings](#) | [Factors](#)

Specifications

Design Unit	Metric
d - Bore	250 mm
Bore_Taper	1/12
Cage Type	EMB
Cage Material	Brass
Superseded Part	26250KYMBW33W40IC4

Dimensions



D - Outer Diameter

410 mm
16.1417 in

B' - Inner Ring Width	128 mm 5.0394 in
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B - Outer Ring Width	128 mm 5.0394 in
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Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	3 mm 0.120 in
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r - Outer Ring "To Clear" Radius²	3 mm 0.12 in
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da - Inner Ring Backing Diameter	284.500 mm 11.2000 in
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Da - Outer Ring Backing Diameter	373.900 mm 14.720 in
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Basic Load Ratings

C0 - Static Radial Rating	3150000 N 709000 lbf
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C1(2) - Dynamic Radial Rating (Two-Rows)	2190000 N 492000 lbf
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Factors

e - ISO Factor³	0.3
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Y0 - ISO Factor⁴	2.23
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Y1 - ISO Factor⁵	2.28
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Y2 - ISO Factor⁶	3.39
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Reference Thermal Speed Rating (Grease)	620 rpm
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Reference Thermal Speed Rating (Oil)⁷	680 rpm
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C_g - Geometry Factor⁸	0.1105
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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.

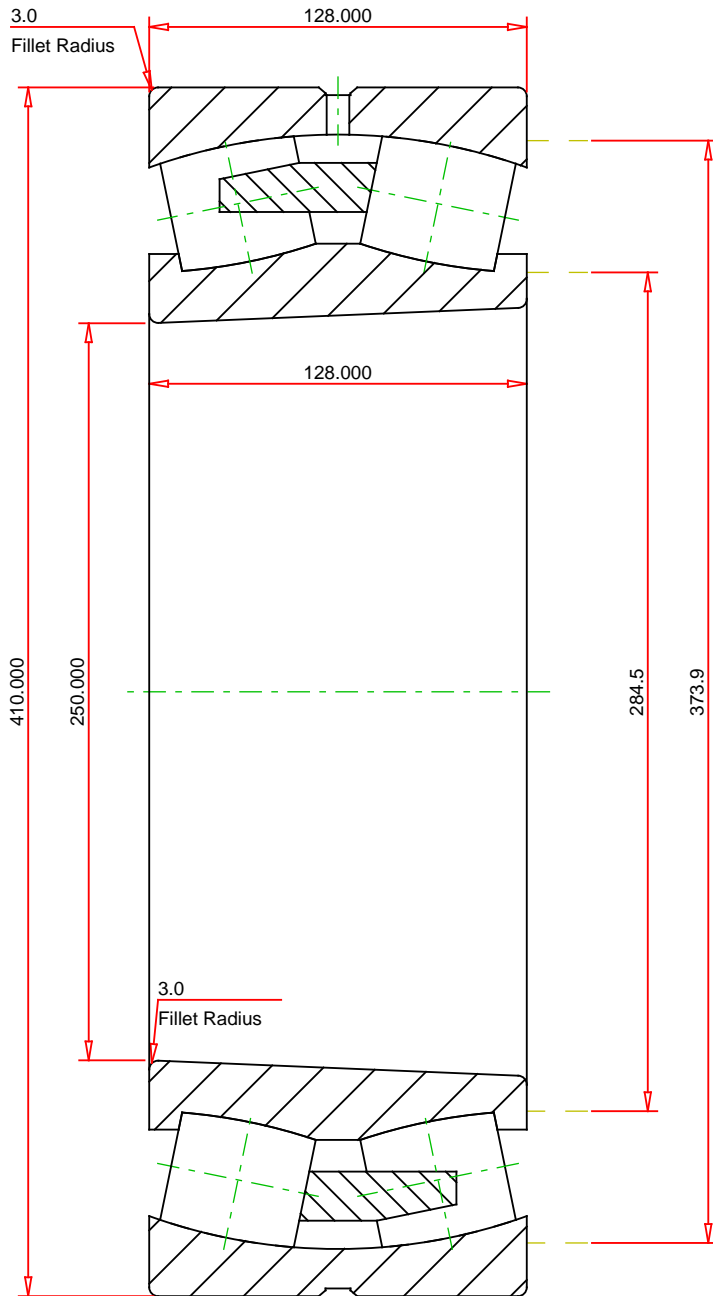
⁴ These factors apply for both inch and metric calculations. See engineering

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⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a_{3l}.



METRIC UNITS

Number of Rollers Per Row	21
ISO Factor e	0.30
ISO Factor Y0	2.23
ISO Factor Y1	2.28
ISO Factor Y2	3.39
Bearing Weight	0.6 kg
Cage Type	EMB
Cage Material	Brass
Bore Taper	1/12

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

26250KEMBW33W40IC4
SRB ASSEMBLY

Dynamic Radial Rating (Two Rows)	219000	N
Static Radial Rating	315000	N

Every reasonable effort has been made to ensure the accuracy of the information contained in this writing, but no liability is accepted for errors, omissions or for any other reason.

FOR DISCUSSION ONLY