



NTN BEARING CORP.OF America LTD.

TYPE TS



Timken jm205149as Bearing

Bearing No. jm205149as

Series	M205100
Cone Part Number	JM205149AS
Design Units	METRIC
Cage Type	Stamped Steel
C1 - Dynamic Radial Rating (Two-Row, 1 million revolutions) ¹	57400 lbf
C90(2) - Dynamic Radial Rating (Two-Row, 90 million revolutions) ²	14900 lbf
d	50.000 mm
B - Cone Width	28.000 mm
WPD	84.3 mm
DD	75.1 mm
R - Cone Backface To Clear Radius ³	2.540 mm
da - Cone Frontface Backing Diameter	57 mm
db - Cone Backface Backing Diameter	63 mm
Ab - Cage-Cone Frontface Clearance	2.8 mm
Aa - Cage-Cone Backface Clearance	0.3 mm
a - Effective Center Location ⁴	-7.6 mm
C90 - Dynamic Radial Rating (90 million revolutions) ⁵	38000 N
C1 - Dynamic Radial Rating	147000 N

jm205149as Bearing 2D drawings and 3D CAD models



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(1 million revolutions) ⁶	
C0 - Static Radial Rating	154000 N
C _{a90} - Dynamic Thrust Rating (90 million revolutions) ⁷	21400 N
K - Factor ⁸	1.78
G1 - Heat Generation Factor (Roller-Raceway)	48.2
G2 - Heat Generation Factor (Rib-Roller End)	15.2
Cg - Geometry Factor	0.0885