



BEARING PRECISION AXLE CORP.

TYPE TS



Timken 399a Bearing

Bearing No. 399a

Series	395
Cone Part Number	399A
Design Units	Imperial
Cage Type	Stamped Steel
C1 - Dynamic Radial Rating (Two-Row, 1 million revolutions) ¹	38700 lbf
C90(2) - Dynamic Radial Rating (Two-Row, 90 million revolutions) ²	10000 lbf
d	2.6875 in
B - Cone Width	0.8660 in
R - Cone Backface To Clear Radius ³	0.09 in
da - Cone Frontface Backing Diameter	2.91 in
db - Cone Backface Backing Diameter	3.07 in
Ab - Cage-Cone Frontface Clearance	0.11 in
Aa - Cage-Cone Backface Clearance	0.05 in
a - Effective Center Location ⁴	-0.03 in
C90 - Dynamic Radial Rating (90 million revolutions) ⁵	5760 lbf
C1 - Dynamic Radial Rating (1 million revolutions) ⁶	22200 lbf
C0 - Static Radial Rating	28100 lbf

399a Bearing 2D drawings and 3D CAD models



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C_{a90} - Dynamic Thrust Rating (90 million revolutions) ⁷	3970 lbf
K - Factor ⁸	1.45
G1 - Heat Generation Factor (Roller-Raceway)	56
G2 - Heat Generation Factor (Rib-Roller End)	21.4
Cg - Geometry Factor	0.0984