

# NTN 230/850BK spherical roller bearings

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Series	2700
Cone Part Number	2796
Cup Part Number	2720-B
Design Units	Imperial
Bearing Weight	1.3 lb
Cage Type	Stamped Steel
d	1.3750 in
D	3 in
D1 – Flange Outer Diameter	3.2500 in
B – Cone Width	1.0100 in
C – Cup Width	0.7500 in
C1 – Cup Flange Width	0.2500 in
T1 – Bearing Width	0.9375 in
T – Bearing Width to Flange	0.4375 in
R – Cone Backface To Clear Radius1	0.14 in
r – Cup Backface To Clear Radius2	0.130 in
da – Cone Frontface Backing Diameter	1.61 in
db – Cone Backface Backing Diameter	1.87 in
Da – Cup Frontface Backing Diameter	2.91 in
Ab – Cage-Cone Frontface Clearance	0.06 in
Aa – Cage-Cone Backface Clearance	0.04 in
a – Effective Center Location3	-0.32 in

C90 – Dynamic Radial Rating (90 million revolutions) <sup>4</sup>	5060 lbf
C1 – Dynamic Radial Rating (1 million revolutions) <sup>5</sup>	19500 lbf
C0 – Static Radial Rating	23000 lbf
Ca90 – Dynamic Thrust Rating (90 million revolutions) <sup>6</sup>	2630 lbf
K – Factor <sup>7</sup>	1.93
e – ISO Factor <sup>8</sup>	0.3
Y – ISO Factor <sup>9</sup>	1.98
G1 – Heat Generation Factor (Roller-Raceway) <sup>10</sup>	28.7
G2 – Heat Generation Factor (Rib-Roller End)	12.2
Cg – Geometry Factor <sup>11</sup>	0.0725