

# FYH UCFC204-12 bearing units

FYH UCFC204-12 bearing units HH221400 Series Needs Analysis  
 HH221447 Cone Part Number , Imperial Design Units  
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Series	HH221400
Cone Part Number	HH221447
Design Units	Imperial
Cage Type	Stamped Steel
C1 – Dynamic Radial Rating (Two-Row, 1 million revolutions) <sup>1</sup>	209000 lbf
C90(2) – Dynamic Radial Rating (Two-Row, 90 million revolutions) <sup>2</sup>	54200 lbf
d	3.9363 in
B – Cone Width	2.2650 in
R – Cone Backface To Clear Radius <sup>3</sup>	0.25 in
da – Cone Frontface Backing Diameter	4.49 in
db – Cone Backface Backing Diameter	4.96 in
Ab – Cage-Cone Frontface Clearance	0.16 in
Aa – Cage-Cone Backface Clearance	0.08 in
a – Effective Center Location <sup>4</sup>	-0.59 in
C90 – Dynamic Radial Rating (90 million revolutions) <sup>5</sup>	31100 lbf
C1 – Dynamic Radial Rating (1 million revolutions) <sup>6</sup>	120000 lbf
C0 – Static Radial Rating	156000 lbf
Ca90 – Dynamic Thrust Rating (90 million revolutions) <sup>7</sup>	17800 lbf
K – Factor <sup>8</sup>	1.74

G1 – Heat Generation Factor (Roller-Raceway)	265.6
G2 – Heat Generation Factor (Rib-Roller End)	28.4
Cg – Geometry Factor	0.107