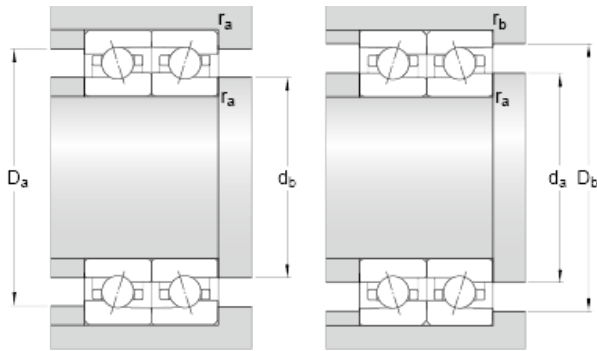




# Nice Precision Bearings (India) Pvt. Ltd



60 mm x 95 mm x 18 mm Calculation factor e  
SKF 7012 ACE/HCP4BVG275 Double-Row  
Angular Contact Ball Bearings

Bearing No. 7012 ACE/HCP4BVG275

7012 ACE/HCP4BVG275 Bearing 2D drawings and 3D  
CAD models

d	60 mm
D	95 mm
B	18 mm
d <sub>1</sub>	72.74 mm
d <sub>2</sub>	70.6 mm
D <sub>1</sub>	82.22 mm
r <sub>1,2</sub> min.	1.1 mm
r <sub>3,4</sub> min.	0.6 mm
a	27.3 mm
d <sub>a</sub> min.	66 mm
d <sub>b</sub> min.	66 mm
D <sub>a</sub> max.	89 mm
D <sub>b</sub> max.	90.8 mm
r <sub>a</sub> max.	1 mm
r <sub>b</sub> max.	0.6 mm
Basic dynamic load rating C	16.3 kN
Basic static load rating C <sub>0</sub>	12.2 kN
Fatigue load limit P <sub>u</sub>	0.52 kN
Attainable speed for grease lubrication	22000 r/min
Ball diameter D <sub>w</sub>	7.938 mm
Number of balls z	25
Reference grease quantity G <sub>ref</sub>	5.3 cm <sup>3</sup>
Preload class A G <sub>A</sub>	150 N



## Nice Precision Bearings (India) Pvt. Ltd

Static axial stiffness, preload class A	135 N/ $\mu$ m
Preload class B $G_B$	440 N
Static axial stiffness, preload class B	200 N/ $\mu$ m
Preload class C $G_C$	870 N
Static axial stiffness, preload class C	260 N/ $\mu$ m
Calculation factor $f$	1.08
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2C}$	1.06
Calculation factor $f_{HC}$	1.01
Calculation factor $e$	0.68
Calculation factor (single, tandem) $Y_2$	0.87
Calculation factor (back-to-back, face-to-face) $Y_1$	0.92
Calculation factor (back-to-back, face-to-face) $Y_2$	1.41
Mass bearing	0.39 kg