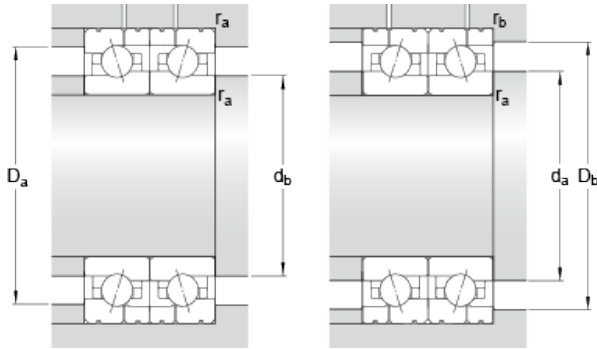




# NTL BEARINGS LTD.



## 7015 ACE/P4AL SKF High Speed Angular Contact Ball Bearings

Bearing No. 7015 ACE/P4AL

7015 ACE/P4AL Bearing 2D drawings and 3D CAD models

d	75 mm
D	115 mm
B	20 mm
d <sub>1</sub>	89.28 mm
d <sub>2</sub>	86.8 mm
D <sub>1</sub>	100.72 mm
b	1.8 mm
C <sub>1</sub>	10.9 mm
C <sub>2</sub>	3.4 mm
C <sub>3</sub>	3.4 mm
r <sub>1,2</sub> min.	1.1 mm
r <sub>3,4</sub> min.	0.6 mm
a	32.3 mm
d <sub>a</sub> min.	81 mm
d <sub>b</sub> min.	81 mm
D <sub>a</sub> max.	109 mm
D <sub>b</sub> max.	110.8 mm
r <sub>a</sub> max.	1 mm
r <sub>b</sub> max.	0.6 mm
d <sub>n</sub>	91.5 mm
Basic dynamic load rating C	24.7 kN
Basic static load rating C <sub>0</sub>	20.4 kN
Fatigue load limit P <sub>u</sub>	0.865 kN
Attainable speed for grease lubrication	14500 r/min
Attainable speed for oil-air	23000 r/min



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Lubrication	
Ball diameter $D_w$	9.525 mm
Number of balls $z$	26
Reference grease quantity $G_{ref}$	8.6 cm <sup>3</sup>
Preload class A $G_A$	220 N
Static axial stiffness, preload class A	161 N/ $\mu$ m
Preload class B $G_B$	670 N
Static axial stiffness, preload class B	243 N/ $\mu$ m
Preload class C $G_C$	1340 N
Static axial stiffness, preload class C	318 N/ $\mu$ m
Calculation factor $f$	1.1
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
Calculation factor $e$	0.68
Calculation factor (single, tandem) $Y_2$	0.87
Calculation factor (single, tandem) $Y_0$	0.38
Calculation factor (single, tandem) $X_2$	0.41
Calculation factor (back-to- back, face-to-face) $Y_1$	0.92
Calculation factor (back-to- back, face-to-face) $Y_2$	1.41
Calculation factor (back-to- back, face-to-face) $Y_0$	0.76
Calculation factor (back-to- back, face-to-face) $X_2$	0.67
Mass bearing	0.65 kg



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