



Bearing No. S7015 ACB/HCP4A

D	115 mm
d	75 mm
B	20 mm
a	32.3 mm
Ball - z	30
Size (mm)	115x75x20
Width (mm)	20
Mass bearing	0.66 kg
D <sub>2</sub>	102.8 mm
d <sub>2</sub>	88.2 mm
d <sub>1</sub>	90 mm
d <sub>2</sub>	88.2 mm
D <sub>2</sub>	102.8 mm
d <sub>1</sub>	90 mm
Bearing number	S7015 ACB/HCP4A
Preload class A	148 N/micron
Preload class B	188 N/micron
Preload class C	285 N/micron
Number of balls z	30
r <sub>b</sub> max.	0.6 mm
r <sub>a</sub> max.	1 mm
D <sub>b</sub> max.	111.8 mm
D <sub>a</sub> max.	109 mm
d <sub>b</sub> max.	87.4 mm
d <sub>b</sub> min.	81 mm
d <sub>a</sub> max.	89.2 mm
Bore Diameter (mm)	115
d <sub>a</sub> min.	81 mm
Outer Diameter (mm)	75
d <sub>a</sub> - max.	89.2 mm

$d_a$ - min.	81 mm
Calculation factor e	0.68
Calculation factor f	1.08
$d_b$ - max.	87.4 mm
$D_a$ - max.	109 mm
$r_a$ - max.	1 mm
$r_b$ - max.	0.6 mm
$d_b$ - min.	81 mm
$r_{3,4}$ min.	0.6 mm
$r_{1,2}$ min.	1.1 mm
Ball - $D_w$	7.938 mm
$D_b$ - max.	111.8 mm
$r_{3,4}$ - min.	0.6 mm
Calculation factor - f	1.08
Calculation factor - e	0.68
$r_{1,2}$ - min.	1.1 mm
Basic dynamic load rating C	25.1 kN
Ball diameter $D_w$	7.938 mm
Preload class A $G_A$	115 N
Basic dynamic load rating - C	19 kN
Preload class C $G_C$	690 N
Preload class B $G_B$	230 N
Preload class B - $G_B$	230 N
Preload class A - $G_A$	115 N
Preload class C - $G_C$	690 N
Calculation factor $f_1$	0.99
Fatigue load limit $P_u$	0.71 kN
Calculation factor $f_{HC}$	1.01
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2B}$	1.02

Calculation factor $f_{2A}$	1
Calculation factor - $X_2$	0.67
Calculation factor - $Y_0$	0.76
Calculation factor - $Y_1$	0.92
Calculation factor - $f_1$	0.99
Calculation factor - $Y_2$	1.41
Fatigue load limit - $P_u$	0.71 kN
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{HC}$	1.01
Limiting speed for grease lubrication	17000 r/min
Basic static load rating $C_0$	27 kN
Static axial stiffness, preload class C	285 N/ $\mu$ m
Static axial stiffness, preload class B	188 N/ $\mu$ m
Attainable speed for grease lubrication	17000 r/min
Static axial stiffness, preload class A	148 N/ $\mu$ m
Basic static load rating - $C_0$	16.6 kN
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-	1.41

to-back, face-to-face) $Y_2$	
Calculation factor (back-to-back, face-to-face) $Y_0$	0.76
Calculation factor (back-to-back, face-to-face) $X_2$	0.67