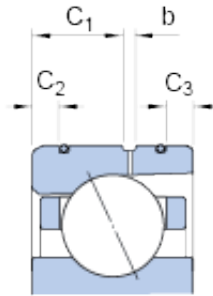
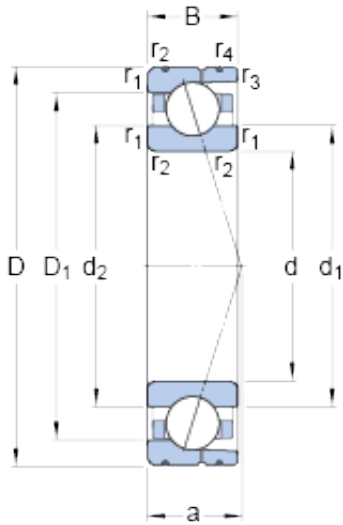




## BEARING-MALAYSIA SDN.BHD.



80 mm x 110 mm x 16 mm SKF 71916  
ACD/HCP4AL Angular contact ball bearing

Bearing No. 71916 ACD/HCP4AL

71916 ACD/HCP4AL Bearing 2D drawings and 3D  
CAD models

Size	110x80x16 mm
Bore Diameter	110 mm
Outer Diameter	80 mm
Width	16 mm
d	80 mm
D	110 mm
B	16 mm
d <sub>1</sub>	89.2 mm
d <sub>2</sub>	89.2 mm
D <sub>1</sub>	100.8 mm
b	2 mm
C <sub>1</sub>	8.6 mm
C <sub>2</sub>	3.5 mm
C <sub>3</sub>	2.8 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.3 mm
a	30.2 mm
d <sub>a</sub> - min.	84.6 mm
d <sub>b</sub> - min.	84.6 mm
D <sub>a</sub> - max.	105 mm
D <sub>b</sub> - max.	108 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.3 mm
d <sub>n</sub>	91.7 mm



## BEARING-MALAYSIA SDN.BHD.

Basic dynamic load rating - C	34.5 kN
Basic static load rating - C <sub>0</sub>	36.5 kN
Fatigue load limit - P <sub>u</sub>	1.6 kN
Limiting speed for grease lubrication	12000 r/min
Limiting speed for oil lubrication	19000 mm/min
Ball - D <sub>w</sub>	9.525 mm
Ball - z	27
G <sub>ref</sub>	5.1 cm <sup>3</sup>
Calculation factor - e	0.68
Calculation factor - Y <sub>2</sub>	0.87
Calculation factor - Y <sub>0</sub>	0.38
Calculation factor - X <sub>2</sub>	0.41
Calculation factor - Y <sub>1</sub>	0.92
Calculation factor - Y <sub>2</sub>	1.41
Calculation factor - Y <sub>0</sub>	0.76
Calculation factor - X <sub>2</sub>	0.67
Preload class A - G <sub>A</sub>	220 N
Preload class B - G <sub>B</sub>	440 N
Preload class C - G <sub>C</sub>	880 N
Preload class D - G <sub>D</sub>	1760 N
Calculation factor - f	1.24
Calculation factor - f <sub>1</sub>	0.98
Calculation factor - f <sub>2A</sub>	1
Calculation factor - f <sub>2B</sub>	1.07
Calculation factor - f <sub>2C</sub>	1.12
Calculation factor - f <sub>2D</sub>	1.17
Calculation factor - f <sub>HC</sub>	1.04



## BEARING-MALAYSIA SDN.BHD.

Preload class A	226 N/micron
Preload class B	296 N/micron
Preload class C	397 N/micron
Preload class D	544 N/micron
$d_1$	89.2 mm
$d_2$	89.2 mm
$D_1$	100.8 mm
$C_1$	8.6 mm
$C_2$	3.5 mm
$C_3$	2.8 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
$d_a$ min.	84.6 mm
$d_b$ min.	84.6 mm
$D_a$ max.	105 mm
$D_b$ max.	108 mm
$r_a$ max.	1 mm
$r_b$ max.	0.3 mm
$d_n$	91.7 mm
Basic dynamic load rating C	34.5 kN
Basic static load rating $C_0$	36.5 kN
Fatigue load limit $P_u$	1.56 kN
Attainable speed for grease lubrication	12000 r/min
Attainable speed for oil-air lubrication	19000 r/min
Ball diameter $D_w$	9.525 mm
Number of balls z	27
Reference grease quantity $G_{ref}$	5.1 cm <sup>3</sup>
Preload class A $G_A$	220 N
Static axial stiffness, preload class A	226 N/ $\mu$ m



## BEARING-MALAYSIA SDN.BHD.

Preload class B $G_B$	440 N
Static axial stiffness, preload class B	296 N/ $\mu$ m
Preload class C $G_C$	880 N
Static axial stiffness, preload class C	397 N/ $\mu$ m
Preload class D $G_D$	1760 N
Static axial stiffness, preload class D	544 N/ $\mu$ m
Calculation factor $f$	1.24
Calculation factor $f_1$	0.98
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.07
Calculation factor $f_{2C}$	1.12
Calculation factor $f_{2D}$	1.17
Calculation factor $f_{HC}$	1.04
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	0.32 kg