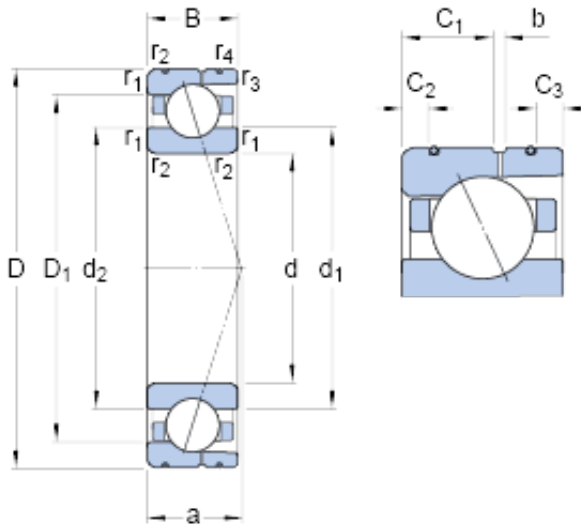




## BEARING-MALAYSIA SDN.BHD.



100 mm x 150 mm x 24 mm SKF 7020  
ACD/P4AL angular contact ball bearings

Bearing No. 7020 ACD/P4AL

7020 ACD/P4AL Bearing 2D drawings and 3D CAD models

Size	150x100x24 mm
Bore Diameter	150 mm
Outer Diameter	100 mm
Width	24 mm
d	100 mm
D	150 mm
B	24 mm
d <sub>1</sub>	115.4 mm
d <sub>2</sub>	115.4 mm
D <sub>1</sub>	134.6 mm
b	2.2 mm
C <sub>1</sub>	13.4 mm
C <sub>2</sub>	5.2 mm
C <sub>3</sub>	4 mm
r <sub>1,2</sub> - min.	1.5 mm
r <sub>3,4</sub> - min.	1 mm
a	41.3 mm
d <sub>a</sub> - min.	107 mm
d <sub>b</sub> - min.	107 mm
D <sub>a</sub> - max.	143 mm
D <sub>b</sub> - max.	146 mm
r <sub>a</sub> - max.	1.5 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	118.7 mm



## BEARING-MALAYSIA SDN.BHD.

Basic dynamic load rating - C	79.3 kN
Basic static load rating - $C_0$	80 kN
Fatigue load limit - $P_u$	3 kN
Limiting speed for grease lubrication	8000 r/min
Limiting speed for oil lubrication	12000 mm/min
Ball - $D_w$	15.875 mm
Ball - z	22
$G_{ref}$	16.2 cm <sup>3</sup>
Calculation factor - e	0.68
Calculation factor - $Y_2$	0.87
Calculation factor - $Y_0$	0.38
Calculation factor - $X_2$	0.41
Calculation factor - $Y_1$	0.92
Calculation factor - $Y_2$	1.41
Calculation factor - $Y_0$	0.76
Calculation factor - $X_2$	0.67
Preload class A - $G_A$	500 N
Preload class B - $G_B$	1000 N
Preload class C - $G_C$	2000 N
Preload class D - $G_D$	4000 N
Calculation factor - f	1.16
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2D}$	1.08
Calculation factor - $f_{HC}$	1



## BEARING-MALAYSIA SDN.BHD.

Preload class A	270 N/micron
Preload class B	355 N/micron
Preload class C	472 N/micron
Preload class D	640 N/micron
$d_1$	115.4 mm
$d_2$	115.4 mm
$D_1$	134.6 mm
$C_1$	13.4 mm
$C_2$	5.2 mm
$C_3$	4 mm
$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	1 mm
$d_a$ min.	107 mm
$d_b$ min.	107 mm
$D_a$ max.	143 mm
$D_b$ max.	146 mm
$r_a$ max.	1.5 mm
$r_b$ max.	1 mm
$d_n$	118.7 mm
Basic dynamic load rating C	79.3 kN
Basic static load rating $C_0$	80 kN
Fatigue load limit $P_u$	3.05 kN
Attainable speed for grease lubrication	8000 r/min
Attainable speed for oil-air lubrication	12000 r/min
Ball diameter $D_w$	15.875 mm
Number of balls z	22
Reference grease quantity $G_{ref}$	16.2 cm <sup>3</sup>
Preload class A $G_A$	500 N
Static axial stiffness, preload class A	270 N/ $\mu$ m



## BEARING-MALAYSIA SDN.BHD.

Preload class B $G_B$	1000 N
Static axial stiffness, preload class B	355 N/ $\mu$ m
Preload class C $G_C$	2000 N
Static axial stiffness, preload class C	472 N/ $\mu$ m
Preload class D $G_D$	4000 N
Static axial stiffness, preload class D	640 N/ $\mu$ m
Calculation factor $f$	1.16
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2D}$	1.08
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	1.26 kg