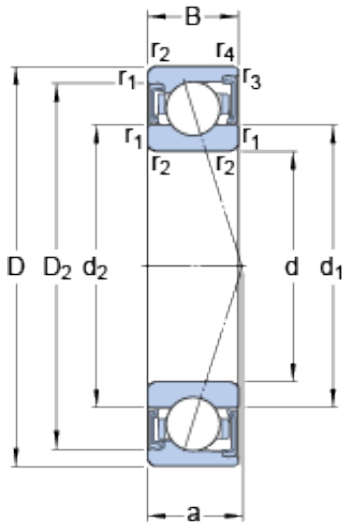




# BEARING-SINGAPORE (PTE)LTD.



140 mm x 190 mm x 24 mm SKF S71928  
ACD/HCP4A angular contact ball bearings

Bearing No. S71928 ACD/HCP4A

S71928 ACD/HCP4A Bearing 2D drawings and 3D  
CAD models

Size	190x140x24 mm
Bore Diameter	190 mm
Outer Diameter	140 mm
Width	24 mm
d	140 mm
D	190 mm
B	24 mm
d <sub>1</sub>	155.4 mm
d <sub>2</sub>	155.4 mm
D <sub>2</sub>	178.25 mm
r <sub>1,2</sub> - min.	1.5 mm
r <sub>3,4</sub> - min.	0.6 mm
a	50.6 mm
d <sub>a</sub> - min.	147 mm
d <sub>a</sub> - max.	154.8 mm
d <sub>b</sub> - min.	147 mm
d <sub>b</sub> - max.	154.8 mm
D <sub>a</sub> - max.	183 mm
D <sub>b</sub> - max.	186 mm
r <sub>a</sub> - max.	1.5 mm
r <sub>b</sub> - max.	0.6 mm
Basic dynamic load rating - C	90.4 kN
Basic static load rating - C <sub>0</sub>	110 kN
Fatigue load limit - P <sub>u</sub>	3.6 kN



## BEARING-SINGAPORE (PTE)LTD.

Limiting speed for grease lubrication	7000 r/min
Ball - $D_w$	15.875 mm
Ball - $z$	29
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 - $G_A$	560 N
Preload class B - $G_B$	1120 N
Preload class C - $G_C$	2240 N
Preload class D - $G_D$	4480 N
Calculation factor - $f$	1.29
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
Preload class A	386 N/micron
Preload class B	507 N/micron
Preload class C	681 N/micron
Preload class D	933 N/micron
$d_1$	155.4 mm
$d_2$	155.4 mm
$D_2$	178.25 mm



## BEARING-SINGAPORE (PTE)LTD.

$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	147 mm
$d_a$ max.	154.8 mm
$d_b$ min.	147 mm
$d_b$ max.	154.8 mm
$D_a$ max.	183 mm
$D_b$ max.	186 mm
$r_a$ max.	1.5 mm
$r_b$ max.	0.6 mm
Basic dynamic load rating C	90.4 kN
Basic static load rating $C_0$	110 kN
Fatigue load limit $P_u$	3.65 kN
Attainable speed for grease lubrication	7000 r/min
Ball diameter $D_w$	15.875 mm
Number of balls z	29
Preload class A $G_A$	560 N
Static axial stiffness, preload class A	386 N/ $\mu$ m
Preload class B $G_B$	1120 N
Static axial stiffness, preload class B	507 N/ $\mu$ m
Preload class C $G_C$	2240 N
Static axial stiffness, preload class C	681 N/ $\mu$ m
Preload class D $G_D$	4480 N
Static axial stiffness, preload class D	933 N/ $\mu$ m
Calculation factor f	1.29
Calculation factor $f_1$	0.98
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.07
Calculation factor $f_{2C}$	1.12



## BEARING-SINGAPORE (PTE)LTD.

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	1.4 kg