



**Bearing No. 71804 ACD/P4**

D	32 mm
d	20 mm
B	7 mm
a	9.6 mm
Ball - z	17
Size (mm)	32x20x7
Width (mm)	7
Mass bearing	0.018 kg
$d_n$	24.5 mm
$d_n$	24.5 mm
$D_1$	28.1 mm
$d_1$	24.1 mm
$d_2$	24.1 mm
$D_1$	28.1 mm
$d_2$	24.1 mm
$d_1$	24.1 mm
Bearing number	71804 ACD/P4
Preload class A	52 N/micron
$G_{ref}$	0.18 cm <sup>3</sup>
Preload class C	112 N/micron
Preload class B	83 N/micron
Number of balls z	17
Bore Diameter (mm)	32
$r_b$ max.	0.15 mm
$r_a$ max.	0.3 mm
$D_b$ max.	31.2 mm
$D_a$ max.	30 mm
$d_a$ min.	22 mm
$d_b$ min.	22 mm

Outer Diameter (mm)	20
$D_b$ - max.	31.2 mm
$d_a$ - min.	22 mm
Calculation factor e	0.68
Calculation factor f	1.08
$r_b$ - max.	0.15 mm
$D_a$ - max.	30 mm
$r_a$ - max.	0.3 mm
$r_{3,4}$ min.	0.15 mm
$r_{1,2}$ min.	0.3 mm
Ball - $D_w$	3.175 mm
$d_b$ - min.	22 mm
$r_{1,2}$ - min.	0.3 mm
$r_{3,4}$ - min.	0.15 mm
Calculation factor - e	0.68
Calculation factor - f	1.08
Basic dynamic load rating C	3.64 kN
Ball diameter $D_w$	3.175 mm
Preload class B $G_B$	100 N
Preload class C $G_C$	200 N
Basic dynamic load rating - C	3.6 kN
Preload class A $G_A$	32 N
Preload class B - $G_B$	100 N
Preload class C - $G_C$	200 N
Preload class A - $G_A$	32 N
Fatigue load limit $P_u$	0.106 kN
Calculation factor $f_1$	0.97
Calculation factor $f_{2C}$	1.15
Calculation factor $f_{2A}$	1
Calculation factor $f_{HC}$	1

Calculation factor $f_{2B}$	1.08
Limiting speed for oil lubrication	63000 mm/min
Fatigue load limit - $P_u$	0.106 kN
Calculation factor - $f_1$	0.97
Calculation factor - $Y_2$	1.41
Calculation factor - $X_2$	0.67
Calculation factor - $Y_1$	0.92
Calculation factor - $Y_0$	0.76
Calculation factor - $f_{HC}$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2C}$	1.15
Calculation factor - $f_{2B}$	1.08
Limiting speed for grease lubrication	40000 r/min
Basic static load rating $C_0$	2.5 kN
Static axial stiffness, preload class B	83 N/ $\mu$ m
Static axial stiffness, preload class A	52 N/ $\mu$ m
Attainable speed for grease lubrication	40000 r/min
Static axial stiffness, preload class C	112 N/ $\mu$ m
Basic static load rating - $C_0$	2.5 kN
Attainable speed for oil-air lubrication	63000 r/min
Reference grease quantity $G_{ref}$	0.18 cm <sup>3</sup>
Calculation factor (single, tandem) $Y_2$	0.87
Calculation factor	0.38

(single, tandem) $Y_0$	
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