



Bearing No. 71940 CD/HCP4AH1

K	0.6 mm
a	51.3 mm
d	200 mm
D	280 mm
B	38 mm
Ball - z	26
Size (mm)	280x200x38
Width (mm)	38
Mass bearing	5.11 kg
$d_n$	231.4 mm
$D_1$	255.3 mm
$d_1$	224.7 mm
$C_1$	10 mm
$D_1$	255.3 mm
$d_2$	224.7 mm
$C_1$	10 mm
$d_1$	224.7 mm
$d_n$	231.4 mm
$d_2$	224.7 mm
Bearing number	71940 CD/HCP4AH1
Preload class A	224 N/micron
Preload class D	627 N/micron
Preload class B	305 N/micron
Preload class C	430 N/micron
$G_{ref}$	81 cm <sup>3</sup>
Number of balls z	26
$r_b$ max.	1 mm
$r_a$ max.	2 mm
$D_b$ max.	275 mm

$D_a$ max.	271 mm
$d_b$ min.	209 mm
$d_a$ min.	209 mm
Bore Diameter (mm)	280
Outer Diameter (mm)	200
$d_b$ - min.	209 mm
$r_b$ - max.	1 mm
$r_{1,2}$ min.	2.1 mm
$d_a$ - min.	209 mm
Calculation factor f	1.23
$r_a$ - max.	2 mm
$r_{3,4}$ min.	1 mm
$D_a$ - max.	271 mm
Ball - $D_w$	25.4 mm
$D_b$ - max.	275 mm
Calculation factor - f	1.23
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	2.1 mm
Ball diameter $D_w$	25.4 mm
Basic dynamic load rating C	208 kN
Preload class D $G_D$	6400 N
Preload class A $G_A$	800 N
Preload class C $G_C$	3200 N
Preload class B $G_B$	1600 N
Basic dynamic load rating - C	208 kN
Preload class A - $G_A$	800 N
Preload class B - $G_B$	1600 N
Preload class C - $G_C$	3200 N
Preload class D - $G_D$	6400 N
Fatigue load limit $P_u$	7.2 kN

Calculation factor $f_1$	1
Calculation factor $f_0$	16.3
Calculation factor $f_{2D}$	1.18
Calculation factor - f	1
Calculation factor $f_{2C}$	1.12
Calculation factor $f_{HC}$	1.04
Calculation factor $f_{2B}$	1.07
Calculation factor $f_{2A}$	1
Limiting speed for oil lubrication	8500 mm/min
Fatigue load limit - $P_u$	7.2 kN
Calculation factor - $f_0$	16.3
Calculation factor - $f_{2D}$	1.18
Calculation factor - $f_{HC}$	1.04
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2C}$	1.12
Calculation factor - $f_{2B}$	1.07
Limiting speed for grease lubrication	6000 r/min
Basic static load rating $C_0$	265 kN
Static axial stiffness, preload class B	305 N/ $\mu$ m
Static axial stiffness, preload class C	430 N/ $\mu$ m
Static axial stiffness, preload class A	224 N/ $\mu$ m
Static axial stiffness, preload class D	627 N/ $\mu$ m
Attainable speed for grease lubrication	6000 r/min
Attainable speed for oil-air lubrication	8500 r/min

Basic static load rating - $C_0$	265 kN
Reference grease quantity $G_{ref}$	81 cm <sup>3</sup>