



Bearing No. 71940 CD/HCP4A

D	280 mm
d	200 mm
B	38 mm
a	51.3 mm
Ball - z	26
Size (mm)	280x200x38
Width (mm)	38
Mass bearing	5.11 kg
d_n	231.4 mm
d_n	231.4 mm
D_1	255.3 mm
d_1	224.7 mm
d_2	224.7 mm
D_1	255.3 mm
d_2	224.7 mm
d_1	224.7 mm
Bearing number	71940 CD/HCP4A
Preload class A	224 N/micron
G_{ref}	81 cm ³
Preload class C	430 N/micron
Preload class D	627 N/micron
Preload class B	305 N/micron
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_a min.	209 mm
Bore Diameter (mm)	280

d_b min.	209 mm
Outer Diameter (mm)	200
d_a - min.	209 mm
r_a - max.	2 mm
$r_{1,2}$ min.	2.1 mm
Calculation factor f	1.23
D_b - max.	275 mm
$r_{3,4}$ min.	1 mm
D_a - max.	271 mm
Ball - D_w	25.4 mm
r_b - max.	1 mm
d_b - min.	209 mm
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	2.1 mm
Calculation factor - f	1.23
Basic dynamic load rating C	208 kN
Ball diameter D_w	25.4 mm
Preload class C G_C	3200 N
Preload class D G_D	6400 N
Preload class B G_B	1600 N
Preload class A G_A	800 N
Basic dynamic load rating - C	208 kN
Preload class D - G_D	6400 N
Preload class C - G_C	3200 N
Preload class B - G_B	1600 N
Preload class A - G_A	800 N
Calculation factor f_1	1
Calculation factor f_0	16.3
Fatigue load limit P_u	7.2 kN
Calculation factor f_{HC}	1.04

Calculation factor f_{2D}	1.18
Calculation factor f_{2C}	1.12
Calculation factor f_{2B}	1.07
Calculation factor f_{2A}	1
Calculation factor - f	1
Fatigue load limit - P_u	7.2 kN
Limiting speed for oil lubrication	8500 mm/min
Calculation factor - f_0	16.3
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1.04
Calculation factor - f_{2C}	1.12
Calculation factor - f_{2B}	1.07
Calculation factor - f_{2D}	1.18
Limiting speed for grease lubrication	6000 r/min
Basic static load rating C_0	265 kN
Static axial stiffness, preload class D	627 N/ μ m
Static axial stiffness, preload class B	305 N/ μ m
Static axial stiffness, preload class A	224 N/ μ m
Attainable speed for grease lubrication	6000 r/min
Static axial stiffness, preload class C	430 N/ μ m
Basic static load rating - C_0	265 kN
Attainable speed for oil-air lubrication	8500 r/min
Reference grease quantity G_{ref}	81 cm ³

