



Bearing No. 71809 CD/HCP4

D	58 mm
d	45 mm
B	7 mm
a	10.4 mm
Ball - z	31
Size (mm)	58x45x7
Width (mm)	7
Mass bearing	0.037 kg
d _n	50 mm
d _n	50 mm
D ₁	53.6 mm
d ₁	49.6 mm
d ₂	49.6 mm
D ₁	53.6 mm
d ₂	49.6 mm
d ₁	49.6 mm
Bearing number	71809 CD/HCP4
Preload class A	42 N/micron
Preload class B	72 N/micron
Preload class C	106 N/micron
G _{ref}	0.36 cm ³
Number of balls z	31
D _a max.	56 mm
d _a min.	47 mm
d _b min.	47 mm
D _b max.	57.2 mm
r _a max.	0.3 mm
r _b max.	0.15 mm
Bore Diameter (mm)	58

Outer Diameter (mm)	45
d_a - min.	47 mm
r_a - max.	0.3 mm
$r_{1,2}$ min.	0.3 mm
Calculation factor f	1.24
D_b - max.	57.2 mm
$r_{3,4}$ min.	0.15 mm
r_b - max.	0.15 mm
D_a - max.	56 mm
Ball - D_w	3.175 mm
d_b - min.	47 mm
Calculation factor - f	1.24
$r_{3,4}$ - min.	0.15 mm
$r_{1,2}$ - min.	0.3 mm
Basic dynamic load rating C	4.88 kN
Ball diameter D_w	3.175 mm
Preload class B G_B	80 N
Preload class A G_A	27 N
Basic dynamic load rating - C	4.9 kN
Preload class C G_C	160 N
Preload class A - G_A	27 N
Preload class C - G_C	160 N
Preload class B - G_B	80 N
Calculation factor f_1	1
Fatigue load limit P_u	0.224 kN
Calculation factor f_0	17.4
Calculation factor f_{2C}	1.18
Calculation factor f_{2B}	1.1
Calculation factor f_{2A}	1
Calculation factor f_{HC}	1.02

Calculation factor - f	1
Fatigue load limit - P_u	0.224 kN
Calculation factor - f_0	17.4
Limiting speed for oil lubrication	40000 mm/min
Calculation factor - f_{2B}	1.1
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.18
Calculation factor - f_{HC}	1.02
Limiting speed for grease lubrication	26000 r/min
Basic static load rating C_0	5.3 kN
Static axial stiffness, preload class A	42 N/ μ m
Static axial stiffness, preload class B	72 N/ μ m
Static axial stiffness, preload class C	106 N/ μ m
Attainable speed for grease lubrication	26000 r/min
Attainable speed for oil-air lubrication	40000 r/min
Basic static load rating - C_0	5.3 kN
Reference grease quantity G_{ref}	0.36 cm ³