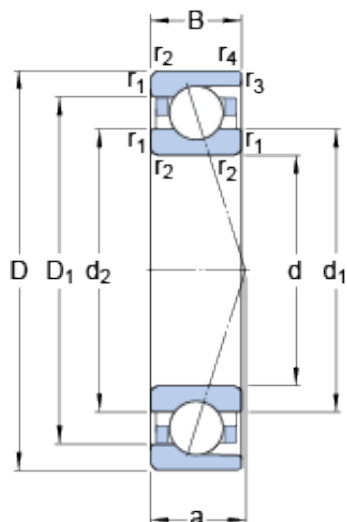




# UNF BRAINGS SALES JAPAN CO.,LTD.



## 100 mm x 125 mm x 13 mm SKF 71820 CD/P4 High Reliability Precision Bearings

Bearing No. 71820 CD/P4

71820 CD/P4 Bearing 2D drawings and 3D CAD models

Size	125x100x13 mm
Bore Diameter	125 mm
Outer Diameter	100 mm
Width	13 mm
d	100 mm
D	125 mm
B	13 mm
d <sub>1</sub>	108.2 mm
d <sub>2</sub>	108.2 mm
D <sub>1</sub>	117 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.3 mm
a	21.6 mm
d <sub>a</sub> - min.	104.6 mm
d <sub>b</sub> - min.	104.6 mm
D <sub>a</sub> - max.	120.4 mm
D <sub>b</sub> - max.	123 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.3 mm
d <sub>n</sub>	109.1 mm
Basic dynamic load rating - C	22.5 kN
Basic static load rating - C <sub>0</sub>	29 kN
Fatigue load limit - P <sub>u</sub>	1.2 kN
Limiting speed for grease	9000 r/min



## UNF BRAINGS SALES JAPAN CO.,LTD.

Lubrication	
Limiting speed for oil lubrication	14000 mm/min
Ball - $D_w$	7.144 mm
Ball - $z$	34
$G_{ref}$	3.2 cm <sup>3</sup>
Calculation factor - $f_0$	17.4
Preload class A - $G_A$	120 N
Preload class B - $G_B$	360 N
Preload class C - $G_C$	720 N
Calculation factor - $f$	1.4
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.09
Calculation factor - $f_{2C}$	1.16
Calculation factor - $f_{HC}$	1
Preload class A	90 N/micron
Preload class B	156 N/micron
Preload class C	231 N/micron
$d_1$	108.2 mm
$d_2$	108.2 mm
$D_1$	117 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
$d_a$ min.	104.6 mm
$d_b$ min.	104.6 mm
$D_a$ max.	120.4 mm
$D_b$ max.	123 mm
$r_a$ max.	1 mm
$r_b$ max.	0.3 mm
$d_n$	109.1 mm



## UNF BRAINGS SALES JAPAN CO.,LTD.

Basic dynamic load rating C	22.5 kN
Basic static load rating $C_0$	29 kN
Fatigue load limit $P_u$	1.16 kN
Attainable speed for grease lubrication	9000 r/min
Attainable speed for oil-air lubrication	14000 r/min
Ball diameter $D_w$	7.144 mm
Number of balls z	34
Reference grease quantity $G_{ref}$	3.2 cm <sup>3</sup>
Preload class A $G_A$	120 N
Static axial stiffness, preload class A	90 N/μm
Preload class B $G_B$	360 N
Static axial stiffness, preload class B	156 N/μm
Preload class C $G_C$	720 N
Static axial stiffness, preload class C	231 N/μm
Calculation factor f	1.4
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.09
Calculation factor $f_{2C}$	1.16
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	17.4
Mass bearing	0.31 kg