

# NTN 7202CGD2/GLP4 angular contact ball bearings

NTN 7202CGD2/GLP4 angular contact ball bearings Needs Analysis , Manufacturing Service . Get Your 100x65x18 Size (mm) Free.

Size (mm)	100x65x18
Bore Diameter (mm)	100
Outer Diameter (mm)	65
Width (mm)	18
d	65 mm
D	100 mm
B	18 mm
d1	75.8 mm
d2	75.8 mm
D1	89.2 mm
r1,2 – min.	1.1 mm
r3,4 – min.	0.6 mm
a	20.1 mm
da – min.	71 mm
db – min.	71 mm
Da – max.	94 mm
Db – max.	96.8 mm
ra – max.	1 mm
rb – max.	0.6 mm
dn	78.1 mm
Basic dynamic load rating – C	41.6 kN
Basic static load rating – C0	37.5 kN
Fatigue load limit – Pu	1.6 kN

Limiting speed for grease lubrication	16000 r/min
Limiting speed for oil lubrication	24000 mm/min
Ball – Dw	11.112 mm
Ball – z	20
Gref	5.7 cm <sup>3</sup>
Calculation factor – f <sub>0</sub>	15.6
Preload class A – GA	160 N
Preload class B – GB	320 N
Preload class C – GC	640 N
Preload class D – GD	1280 N
Calculation factor – f	1
Calculation factor – f <sub>2A</sub>	1
Calculation factor – f <sub>2B</sub>	1.02
Calculation factor – f <sub>2C</sub>	1.05
Calculation factor – f <sub>2D</sub>	1.09
Calculation factor – f <sub>HC</sub>	1.02
Preload class A	82 N/micron
Preload class B	112 N/micron
Preload class C	158 N/micron
Preload class D	230 N/micron
r <sub>1,2</sub> min.	1.1 mm
r <sub>3,4</sub> min.	0.6 mm
d <sub>a</sub> min.	71 mm
d <sub>b</sub> min.	71 mm
D <sub>a</sub> max.	94 mm
D <sub>b</sub> max.	96.8 mm
r <sub>a</sub> max.	1 mm
r <sub>b</sub> max.	0.6 mm
Basic dynamic load rating C	41.6 kN

Basic static load rating C <sub>0</sub>	37.5 kN
Fatigue load limit P <sub>u</sub>	1.6 kN
Attainable speed for grease lubrication	16000 r/min
Attainable speed for oil-air lubrication	24000 r/min
Ball diameter D <sub>w</sub>	11.112 mm
Number of balls z	20
Reference grease quantity G <sub>ref</sub>	5.7 cm <sup>3</sup>
Preload class A G <sub>A</sub>	160 N
Static axial stiffness, preload class A	82 N/μm
Preload class B G <sub>B</sub>	320 N
Static axial stiffness, preload class B	112 N/μm
Preload class C G <sub>C</sub>	640 N
Static axial stiffness, preload class C	158 N/μm
Preload class D G <sub>D</sub>	1280 N
Static axial stiffness, preload class D	230 N/μm
Calculation factor f	1.13
Calculation factor f <sub>1</sub>	1
Calculation factor f <sub>2A</sub>	1
Calculation factor f <sub>2B</sub>	1.02
Calculation factor f <sub>2C</sub>	1.05
Calculation factor f <sub>2D</sub>	1.09
Calculation factor f <sub>HC</sub>	1.02
Calculation factor f <sub>0</sub>	15.6
Mass bearing	0.36 kg