

# NTN 24092B spherical roller bearings

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Size (mm)	47x30x9
Bore Diameter (mm)	47
Outer Diameter (mm)	30
Width (mm)	9
d	30 mm
D	47 mm
B	9 mm
d1	35.95 mm
d2	35.1 mm
D2	43 mm
r1,2 – min.	0.3 mm
r3,4 – min.	0.15 mm
a	12.2 mm
da – min.	32 mm
da – max.	35.4 mm
db – min.	32 mm
db – max.	34.5 mm
Da – max.	45 mm
Db – max.	46.2 mm
ra – max.	0.3 mm

rb – max.	0.15 mm
Basic dynamic load rating – C	4.9 kN
Basic static load rating – C0	3.2 kN
Fatigue load limit – Pu	0.134 kN
Limiting speed for grease lubrication	48000 r/min
Ball – Dw	3.969 mm
Ball – z	22
Calculation factor – f0	9.5
Preload class A – GA	16 N
Preload class B – GB	32 N
Preload class C – GC	96 N
Calculation factor – f	1
Calculation factor – f2A	1
Calculation factor – f2B	1.03
Calculation factor – f2C	1.08
Calculation factor – fHC	1.01
Preload class A	23 N/micron
Preload class B	30 N/micron
Preload class C	48 N/micron
r1,2 min.	0.3 mm
r3,4 min.	0.15 mm
da min.	32 mm
da max.	35.4 mm
db min.	32 mm
db max.	34.5 mm
Da max.	45 mm
Db max.	46.2 mm
ra max.	0.3 mm
rb max.	0.15 mm

Basic dynamic load rating C	6.37 kN
Basic static load rating C <sub>0</sub>	5.2 kN
Fatigue load limit P <sub>u</sub>	0.134 kN
Attainable speed for grease lubrication	48000 r/min
Ball diameter D <sub>w</sub>	3.969 mm
Number of balls z	22
Preload class A G <sub>A</sub>	16 N
Static axial stiffness, preload class A	23 N/μm
Preload class B G <sub>B</sub>	32 N
Static axial stiffness, preload class B	30 N/μm
Preload class C G <sub>C</sub>	96 N
Static axial stiffness, preload class C	48 N/μm
Calculation factor f	1.07
Calculation factor f <sub>1</sub>	1
Calculation factor f <sub>2A</sub>	1
Calculation factor f <sub>2B</sub>	1.03
Calculation factor f <sub>2C</sub>	1.08
Calculation factor f <sub>HC</sub>	1.01
Calculation factor f <sub>0</sub>	9.5
Mass bearing	0.047 kg