

# NKE K 81230-MB thrust roller bearings

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d	75 mm
D	115 mm
B	20 mm
d1	89.28 mm
d2	86.8 mm
D1	100.72 mm
b	1.8 mm
C1	10.9 mm
C2	3.4 mm
C3	3.4 mm
r1,2 min.	1.1 mm
r3,4 min.	0.6 mm
a	32.3 mm
da min.	81 mm
db min.	81 mm
Da max.	109 mm
Db max.	110.8 mm
ra max.	1 mm
rb max.	0.6 mm
dn	91.5 mm
Basic dynamic load rating C	24.7 kN
Basic static load rating C0	20.4 kN
Fatigue load limit Pu	0.865 kN

Attainable speed for grease lubrication	14500 r/min
Attainable speed for oil-air lubrication	23000 r/min
Ball diameter $D_w$	9.525 mm
Number of balls $z$	26
Reference grease quantity $G_{ref}$	8.6 cm <sup>3</sup>
Preload class A $G_A$	220 N
Static axial stiffness, preload class A	161 N/ $\mu$ m
Preload class B $G_B$	670 N
Static axial stiffness, preload class B	243 N/ $\mu$ m
Preload class C $G_C$	1340 N
Static axial stiffness, preload class C	318 N/ $\mu$ m
Calculation factor $f$	1.1
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2C}$	1.06
Calculation factor $f_{HC}$	1
Calculation factor $e$	0.68
Calculation factor (single, tandem) $Y_2$	0.87
Calculation factor (single, tandem) $Y_0$	0.38
Calculation factor (single, tandem) $X_2$	0.41
Calculation factor (back-to-back, face-to-face) $Y_1$	0.92
Calculation factor (back-to-back, face-to-face) $Y_2$	1.41
Calculation factor (back-to-back, face-to-face) $Y_0$	0.76
Calculation factor (back-to-back, face-to-face) $X_2$	0.67
Mass bearing	0.65 kg