

# NKE NJ315-E-TVP3 cylindrical roller bearings

NKE NJ315-E-TVP3 cylindrical roller bearings Needs Analysis , 280x380x46 Size (mm) 280 Bore Diameter (mm) 380 Outer Diameter (mm) Manufacturing Service . Get Your Free.

Size (mm)	280x380x46
Bore Diameter (mm)	280
Outer Diameter (mm)	380
Width (mm)	46
d	280 mm
D	380 mm
B	46 mm
C	46 mm
d1	311.8 mm
d2	311.8 mm
r1 min.	2,1 mm
r2 min.	2,1 mm
r3 min.	1,1 mm
r4 min.	1,1 mm
D1	348.2 mm
D2	– mm
da min.	291 mm
Da max.	369 mm
db min	291 mm
ra max.	2 mm
rb max.	1 mm
dh	319,7 mm

Db max	374 mm
Weight	13 Kg
Basic dynamic load rating (C)	276 kN
Basic static load rating (C0)	430 kN
(Grease) Lubrication Speed	2 600 r/min
(Oil) Lubrication Speed	4 000 r/min
Fatigue load limit (Pu)	10
r1,2 min.	2.1 mm
r3,4 min.	1.1 mm
a	100.2 mm
db min.	291 mm
Db max.	374 mm
dn	319.7 mm
Basic dynamic load rating C	276 kN
Basic static load rating C0	430 kN
Fatigue load limit Pu	10 kN
Attainable speed for grease lubrication	2600 r/min
Attainable speed for oil-air lubrication	4000 r/min
Ball diameter Dw	30.162 mm
Number of balls z	31
Reference grease quantity Gref	159 cm <sup>3</sup>
Preload class A GA	1700 N
Static axial stiffness, preload class A	659 N/μm
Preload class B GB	3400 N
Static axial stiffness, preload class B	867 N/μm
Preload class C GC	6800 N
Static axial stiffness, preload class C	1154 N/μm
Preload class D GD	13600 N
Static axial stiffness, preload class D	1572 N/μm

Calculation factor f	1.27
Calculation factor f1	0.98
Calculation factor f2A	1
Calculation factor f2B	1.04
Calculation factor f2C	1.08
Calculation factor f2D	1.14
Calculation factor fHC	1
Calculation factor e	0.68
Calculation factor (single, tandem) Y2	0.87
Calculation factor (single, tandem) Y0	0.38
Calculation factor (single, tandem) X2	0.41
Calculation factor (back-to-back, face-to-face) Y1	0.92
Calculation factor (back-to-back, face-to-face) Y2	1.41
Calculation factor (back-to-back, face-to-face) Y0	0.76
Calculation factor (back-to-back, face-to-face) X2	0.67
Mass bearing	12.9 kg