

# NKE 7214-BE-TVP angular contact ball bearings

NKE 7214-BE-TVP angular contact ball bearings 80x50x16 Size (mm) Product Brochures , Manufacturing Service . 50 Outer Diameter (mm) Get Your Free.

Size (mm)	80x50x16
Bore Diameter (mm)	80
Outer Diameter (mm)	50
Width (mm)	16
d	50 mm
D	80 mm
B	16 mm
d1	59.2 mm
d2	59.2 mm
D1	70.8 mm
r1,2 – min.	1 mm
r3,4 – min.	0.3 mm
a	16.8 mm
da – min.	54.6 mm
db – min.	54.6 mm
Da – max.	75.4 mm
Db – max.	78 mm
ra – max.	1 mm
rb – max.	0.3 mm
dn	61.2 mm
Basic dynamic load rating – C	29.6 kN
Basic static load rating – C0	24 kN

Fatigue load limit – Pu	1 kN
Limiting speed for grease lubrication	20000 r/min
Limiting speed for oil lubrication	32000 mm/min
Ball – Dw	9.525 mm
Ball – z	18
Gref	3.6 cm <sup>3</sup>
Calculation factor – f <sub>0</sub>	15.4
Preload class A – GA	110 N
Preload class B – GB	220 N
Preload class C – GC	440 N
Preload class D – GD	880 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	64 N/micron
Preload class B	88 N/micron
Preload class C	124 N/micron
Preload class D	179 N/micron
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0
Product Group	B04270
Enclosure	Open
Precision Class	ABEC 7   ISO P4

Material – Ball	Ceramic
Number of Bearings	1 (Single)
Contact Angle	15 Degree
Preload	None
Raceway Style	1 Rib Outer Ring
Cage Material	Phenolic
Rolling Element	Ball Bearing
Flush Ground	No
Inch – Metric	Metric
Other Features	Single Row   Angular Contact   High Capacity Basic Design
Long Description	50MM Bore; 80MM Outside Diameter; 16MM Width; Open Enclosure; ABEC 7   ISO P4 Precision; Ceramic Bal
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Ball Angular Contact
Weight / LBS	0.46297
Outside Diameter	3.15 Inch   80 Millimeter
Width	0.63 Inch   16 Millimeter
Bore	1.969 Inch   50 Millimeter
r1,2 min.	1 mm
r3,4 min.	0.3 mm
da min.	54.6 mm
db min.	54.6 mm

Da max.	75.4 mm
Db max.	78 mm
ra max.	1 mm
rb max.	0.3 mm
Basic dynamic load rating C	29.6 kN
Basic static load rating C0	24 kN
Fatigue load limit Pu	1.02 kN
Attainable speed for grease lubrication	20000 r/min
Attainable speed for oil-air lubrication	32000 r/min
Ball diameter Dw	9.525 mm
Number of balls z	18
Reference grease quantity Gref	3.6 cm <sup>3</sup>
Preload class A GA	110 N
Static axial stiffness, preload class A	64 N/μm
Preload class B GB	220 N
Static axial stiffness, preload class B	88 N/μm
Preload class C GC	440 N
Static axial stiffness, preload class C	124 N/μm
Preload class D GD	880 N
Static axial stiffness, preload class D	179 N/μm
Calculation factor f	1.11
Calculation factor f1	1
Calculation factor f2A	1
Calculation factor f2B	1.02

Calculation factor f2C	1.05
Calculation factor f2D	1.09
Calculation factor fHC	1.02
Calculation factor f0	15.4
Mass bearing	0.22 kg