

# Timken 215NPP deep groove ball bearings

Our highly-skilled and factory-trained service experts have the resources to help you with all your Timken 215NPP deep groove ball bearings needs – including routine maintenance, major repairs, warranty service, and 110x70x20 Size (mm) equipment inspections.

Size (mm)	110x70x20
Bore Diameter (mm)	110
Outer Diameter (mm)	70
Width (mm)	20
d	70 mm
D	110 mm
B	20 mm
d1	82.3 mm
d2	82.3 mm
D1	97.7 mm
r1,2 – min.	1.1 mm
r3,4 – min.	0.6 mm
a	31.1 mm
da – min.	76 mm
db – min.	76 mm
Da – max.	104 mm
Db – max.	106 mm
ra – max.	1 mm
rb – max.	0.6 mm
dn	85 mm

Basic dynamic load rating – C	48.8 kN
Basic static load rating – C0	44 kN
Fatigue load limit – Pu	1.9 kN
Limiting speed for grease lubrication	11000 r/min
Limiting speed for oil lubrication	17000 mm/min
Ball – Dw	12.7 mm
Ball – z	19
Gref	8.1 cm <sup>3</sup>
Calculation factor – e	0.68
Calculation factor – Y2	1.41
Calculation factor – Y0	0.76
Calculation factor – X2	0.67
Calculation factor – Y1	0.92
Preload class A – GA	300 N
Preload class B – GB	600 N
Preload class C – GC	1200 N
Preload class D – GD	2400 N
Calculation factor – f	1.12
Calculation factor – f1	0.99
Calculation factor – f2A	1
Calculation factor – f2B	1.02
Calculation factor – f2C	1.05
Calculation factor – f2D	1.08
Calculation factor – fHC	1
Preload class A	191 N/micron
Preload class B	249 N/micron
Preload class C	330 N/micron
Preload class D	447 N/micron
Inventory	0.0

Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.62
EAN	7316570532302
Product Group	B04270
Enclosure	Open
Precision Class	ABEC 7   ISO P4
Material – Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	25 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 Precision
Long Description	70MM Bore; 110MM Outside Diameter; 20MM Width; Open Enclosure; ABEC 7   ISO P4 Precision; Steel Ball
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact Ball
Manufacturer Item Number	7014 ACD/P4A
Weight / LBS	1.363

Width	0.787 Inch   20 Millimeter
Bore	2.756 Inch   70 Millimeter
Outside Diameter	4.331 Inch   110 Millimeter
r1,2 min.	1.1 mm
r3,4 min.	0.6 mm
da min.	76 mm
db min.	76 mm
Da max.	104 mm
Db max.	106 mm
ra max.	1 mm
rb max.	0.6 mm
Basic dynamic load rating C	48.8 kN
Basic static load rating C0	44 kN
Fatigue load limit Pu	1.86 kN
Attainable speed for grease lubrication	11000 r/min
Attainable speed for oil-air lubrication	17000 r/min
Ball diameter Dw	12.7 mm
Number of balls z	19
Reference grease quantity Gref	8.1 cm <sup>3</sup>
Preload class A GA	300 N
Static axial stiffness, preload class A	191 N/μm
Preload class B GB	600 N
Static axial stiffness, preload class B	249 N/μm

Preload class C GC	1200 N
Static axial stiffness, preload class C	330 N/ $\mu\text{m}$
Preload class D GD	2400 N
Static axial stiffness, preload class D	447 N/ $\mu\text{m}$
Calculation factor f	1.12
Calculation factor f1	0.99
Calculation factor f2A	1
Calculation factor f2B	1.02
Calculation factor f2C	1.05
Calculation factor f2D	1.08
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	0.59 kg