

# NSK N1007MRKR cylindrical roller bearings

Our highly-skilled 110x70x20 Size (mm) and factory-trained service experts have the resources to help you with all your NSK N1007MRKR cylindrical roller bearings needs – including routine maintenance, major repairs, warranty service, and 110 Bore Diameter (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
D2	100.64 mm
r1,2 – min.	1.1 mm
r3,4 – min.	0.6 mm
a	31.1 mm
da – min.	76 mm
da – max.	81.7 mm
db – min.	76 mm
db – max.	81.7 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	1.9 kN
Limiting speed for grease lubrication	11000 r/min
Ball – Dw	12.7 mm
Ball – z	19
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	0.591
EAN	7316571883984
Product Group	B04270
Enclosure	2 Seals
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
Enclosure Type	Non Contact Seal
Flush Ground	No
Inch – Metric	Metric
Other Features	Single Row   Angular Contact   Super Precision
Long Description	70MM Bore; 110MM Outside Diameter; 20MM Width; 2 Seals; ISO P4; Single; Phenolic Cage
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Ball Angular Contact
Manufacturer Item Number	S7014 ACD/P4A
Weight / LBS	1.301

Bore	2.756 Inch   70 Millimeter
Width	0.787 Inch   20 Millimeter
Outside Diameter	4.331 Inch   110 Millimeter
r1,2 min.	1.1 mm
r3,4 min.	0.6 mm
da min.	76 mm
da max.	81.7 mm
db min.	76 mm
db max.	81.7 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
Ball diameter Dw	12.7 mm
Number of balls z	19
Preload class A GA	300 N
Static axial stiffness, preload class A	191 N/ $\mu$ m
Preload class B GB	600 N
Static axial stiffness, preload class B	249 N/ $\mu$ m
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	0.61 kg