



SKF 309 NR deep groove ball bearings

Bearing No. 309 NR

Size	100x45x25 mm
Bore Diameter	100 mm
Outer Diameter	45 mm
Width	25 mm
d	45 mm
D	100 mm
B	25 mm
d ₁	62.18 mm
D ₂	86.7 mm
D ₃	96.8 mm
D ₄	106.5 mm
b	2.7 mm
C	3.28 mm
f	2.46 mm
r ₀	0.6 mm
r _{1,2} - min.	1.5 mm
d _a - min.	54 mm
D _a - max.	91 mm
D _b - min.	108 mm
b _a - min.	3 mm
C _a - max.	5.74 mm
r _a - max.	1.5 mm
Basic dynamic load rating - C	55 kN
Basic static load rating - C ₀	44 kN
Fatigue load limit - P _u	1.9 kN

309 NR Bearing 2D drawings and 3D CAD models



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Reference speed	13000 r/min
Limiting speed	7500 r/min
Calculation factor minimum radial load - k_r	0.05
Mass bearing	0.88 kg
Category	Single Row Ball Bearings
Inventory	2.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.93
EAN	7316576680380
Product Group	B00308
Enclosure	Open
Precision Class	ABEC 1 ISO P0
Maximum Capacity / Filling Slot	Yes
Rolling Element	Ball Bearing
Snap Ring	Yes
Internal Special Features	No
Cage Material	Steel
Internal Clearance	C0-Medium
Inch - Metric	Metric
Long Description	45MM Bore; 100MM Outside Diameter; 25MM Outer Race Diameter; Open; Ball Bearing; ABEC 1 ISO P0; Yes Filling Slot; Yes Snap Ring; No Internal Special Features
Category	Single Row Ball Bearing
UNSPSC	31171504
Harmonized Tariff Code	8482.10.50.68
Noun	Bearing
Keyword String	Ball



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Manufacturer URL	http://www.skf.com
Manufacturer Item Number	309 NR
Weight / LBS	2.04
Outside Diameter	3.937 Inch 100 Millimeter
Outer Race Width	0.984 Inch 25 Millimeter
Bore	1.772 Inch 45 Millimeter
bore diameter:	45 mm
static load capacity:	44 kN
outside diameter:	100 mm
precision rating:	ABEC 3 (ISO Class 6)
overall width:	25 mm
finish/coating:	Uncoated
bore type:	Round
cage material:	Steel
closure type:	Open
outer ring width:	25 mm
row type & fill slot:	Single Row Filling Slot
fillet radius:	1.5 mm
snap ring included:	With Snap Ring
maximum rpm:	7500 RPM
internal clearance:	C0
series:	30
dynamic load capacity:	55 kN
thrust application warning:	This product can not be used in Thrust Applications
d_1	62.18 mm
D_2	86.7 mm
D_3	96.8 mm
D_4	106.5 mm
r_0 max.	0.6 mm
$r_{1,2}$ min.	1.5 mm
d_a min.	54 mm
D_a max.	91 mm



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D_b min.	108 mm
b_a min.	3 mm
C_a max.	5.74 mm
r_a max.	1.5 mm
Basic dynamic load rating C	55 kN
Basic static load rating C_0	44 kN
Fatigue load limit P_u	1.86 kN
Calculation factor k_r	0.05
Snap ring	SP 100