



Bearing No. 6209ZNR

D	85,000 mm
d	45,000 mm
B	19,000 mm
C	19,000 mm
f	1.7 mm
f0	14.1
Noun	Bearing
Bore	1.772 Inch 45 Millimeter
Mass	0.4 kg
b min	1.9 mm
b max	2.2 mm
a min	3.07 mm
a max	3.28 mm
Ca min	4.67 mm
Ca max	4.98 mm
UNSPSC	31171504
Db min	93 mm
Da max	78.5 mm
D4 max	91.6 mm
r0 max	0.6 mm
da min	51.5 mm
D3 max	81.81 mm
ra max	1 mm
rs min	1.1 mm
rNa max	0.5 mm
rNs min	0.5 mm
Category	Single Row Ball Bearing
Snap Ring	Yes
Inventory	0.0

Enclosure	1 Metal Shield
Size (mm)	45x85x19
Nlim (oil)	9,200 rpm
Width (mm)	19,000
bore type:	Round
Weight / LBS	0.897
Product Group	B00308
Cage Material	Steel
Inch - Metric	Metric
Nlim (grease)	7,800 rpm
closure type:	Single Shield
overall width:	19 mm
Keyword String	Ball
bore diameter:	45 mm
Bearing number	6209ZNR
cage material:	Steel
fillet radius:	1.1 mm
Static load, C0	20.4 kN
Precision Class	ABEC 1 ISO P0
Rolling Element	Ball Bearing
finish/coating:	Uncoated
Dynamic load, C	32.5 kN
Long Description	45MM Bore; 85MM Outside Diameter; 19MM Outer Race Diameter; 1 Metal Shield; Ball Bearing; ABEC 1 ISO P0; No Filling Slot; Yes Snap Ring; No Internal Special Features
Outside Diameter	3.346 Inch 85 Millimeter
Outer Race Width	0.748 Inch 19 Millimeter

Manufacturer URL	http://www.ntnamerica.com
Manufacturer Name	NTN
Weight / Kilogram	0.41
bearing material:	High Carbon Chrome Steel
outer ring width:	19 mm
inner ring width:	19 mm
outside diameter:	85 mm
precision rating:	ISO Class 0
maximum rpm (oil):	9200 rpm
Internal Clearance	C0-Medium
Bore Diameter (mm)	45,000
internal clearance:	CN
snap ring included:	With Snap Ring
Snap ring reference	R85
Outer Diameter (mm)	85,000
Minimum Buy Quantity	N/A
static load capacity:	20400 N
row type & fill slot:	Single Row Non-Fill Slot
maximum rpm (grease):	7800 rpm
dynamic load capacity:	32500 N
Radial clearance class	CN
Fatigue limit load, Cu	0.93 kN
Harmonized Tariff Code	8482.10.50.68
Manufacturer Item Number	6209ZNR
Internal Special Features	No
manufacturer product page:	Click here
operating temperature range:	-40 to 120 °C
Min operating	-20 °C

temperature, Tmin	
Maximum Capacity / Filling Slot	No
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.4 Hz
Characteristic outer ring frequency, BPF0	3.62 Hz
Characteristic inner ring frequency, BRFI	5.38 Hz
Characteristic rolling element frequency, BSF	4.92 Hz