



# NTN Bearing de Mexico, S.A.



## 45 mm x 100 mm x 36 mm SKF 2309 EM Self Aligning Ball Bearings

Bearing No. 2309 EM

2309 EM Bearing 2D drawings and 3D CAD models

Category	Self Aligning Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight	1.3
EAN	7316576620867
Product Group	B00152
Mounting Method	Shaft
Enclosure	Open
Rolling Element	Ball Bearing
Cage Material	Brass
Precision Class	ABEC 1   ISO P0
Internal Clearance	C0-Medium
Number of Rows of Balls	Double Row
Other Features	Allowable Misalignment 3 Deg   High Capacity Design
Long Description	45MM Bore; Shaft Mount; 100MM Outside Diameter; 36MM Inner Race Width; 36MM Outer Race Width; Open; Brass Cage; Double Row of Balls; ABEC 1   ISO P0; C0-Medium
Inch - Metric	Metric
Category	Self Aligning Ball Bearings
UNSPSC	31171532
Harmonized Tariff Code	8482.10.50.68
Noun	Bearing



## NTN Bearing de Mexico, S.A.

Keyword String	Self Aligning
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	2309 EM
Weight / LBS	2.866
D	3.937 Inch   100 Millimeter
d	1.772 Inch   45 Millimeter
Inner Race Width	1.417 Inch   36 Millimeter
Outer Race Width	1.417 Inch   36 Millimeter
bore diameter:	45 mm
precision rating:	Not Rated
outside diameter:	100 mm
maximum rpm:	9000 RPM
overall width:	36 mm
cage material:	Brass
bore type:	Straight
finish/coating:	Uncoated
closure type:	Open
maximum misalignment:	3 °
internal clearance:	C0
outer ring width:	36 mm
dynamic load capacity:	63.7 kN
fillet radius:	1.1 mm
static load capacity:	19.3 kN
series:	2300
d	45 mm
D	100 mm
B	36 mm
d <sub>1</sub>	60.16 mm
D <sub>1</sub>	86 mm
r <sub>1,2</sub> min.	1.5 mm
d <sub>a</sub> min.	54 mm
D <sub>a</sub> max.	91 mm



## NTN Bearing de Mexico, S.A.

$r_a$ max.	1.5 mm
Basic dynamic load rating C	63.7 kN
Basic static load rating $C_0$	19.3 kN
Fatigue load limit $P_u$	1 kN
Reference speed	13000 r/min
Limiting speed	9000 r/min
Permissible angular misalignment	3 °
Calculation factor $k_r$	0.05
Calculation factor e	0.33
Calculation factor $Y_0$	2
Calculation factor $Y_1$	1.9
Calculation factor $Y_2$	3
Mass bearing	1.46 kg