



### Bearing No. 6309-2Z

D	100 mm
d	45 mm
B	25 mm
Bore	1.772 Inch   45 Millimeter
Noun	Bearing
UNSPSC	31171504
Category	Single Row Ball Bearing
Inventory	2.0
Enclosure	2 Metal Shields
Size (mm)	100x45x25
Snap Ring	No
Width (mm)	25
Mass bearing	0.87 kg
Weight / LBS	1.93
Inch - Metric	Metric
Cage Material	Steel
D <sub>2</sub>	86.7 mm
d <sub>1</sub>	62.18 mm
Product Group	B00308
Keyword String	Ball
Bearing number	6309-2Z
Limiting speed	7500 r/min
Reference speed	15000 r/min
Precision Class	ABEC 1   ISO P0
Rolling Element	Ball Bearing
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Long Description	45MM Bore; 100MM Outside Diameter; 25MM Outer Race Diameter; 2 Metal

	Shields; Ball Bearing; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; No Internal Special Features
Outer Race Width	0.984 Inch   25 Millimeter
Outside Diameter	3.937 Inch   100 Millimeter
Manufacturer Name	SKF
Weight / Kilogram	0.875
Internal Clearance	C0-Medium
$d_a$ max.	62.1 mm
$d_a$ min.	54 mm
$D_a$ max.	91 mm
Bore Diameter (mm)	100
$r_a$ max.	1.5 mm
Outer Diameter (mm)	45
$r_{1,2}$ min.	1.5 mm
$D_a$ - max.	91 mm
$d_a$ - min.	54 mm
$d_a$ - max.	62.1 mm
$r_a$ - max.	1.5 mm
Minimum Buy Quantity	N/A
$d_1$ ?	62.18 mm
$D_2$ ?	86.7 mm
Harmonized Tariff Code	8482.10.50.68
$r_{1,2}$ - min.	1.5 mm
Manufacturer Item Number	6309-2Z
Internal Special Features	No
Basic dynamic load rating C	55.3 kN
Basic dynamic load	55.3 kN

rating - C	
Maximum Capacity / Filling Slot	No
Fatigue load limit $P_u$	1.34 kN
Calculation factor $k_r$	0.03
Calculation factor $f_0$	13
Calculation factor - $k_r$	0.03
Fatigue load limit - $P_u$	1.3 kN
Calculation factor - $f_0$	13
Basic static load rating $C_0$	31.5 kN
Basic static load rating - $C_0$	31.5 kN