



Bearing No. 6309-2RS1TN9/HC5C3WT

D	100 mm
d	45 mm
B	15 mm
Bore	1.772 Inch   45 Millimeter
Noun	Bearing
UNSPSC	31171504
Category	Single Row Ball Bearing
Snap Ring	No
Size (mm)	100x45x15
Enclosure	2 Seals
Inventory	0.0
Width (mm)	15
Weight / LBS	0.77
Mass bearing	0.15 kg
Product Group	B00308
d <sub>2</sub>	54 mm
D <sub>2</sub>	86.7 mm
Inch - Metric	Metric
Cage Material	Polyamide
Bearing number	6309-2RS1TN9/HC5C3 WT
Keyword String	Ball
Enclosure Type	Contact Seal
Other Features	Deep Groove   NBR Seal   Hybrid Silicon Nitride Rolling Element   WT Standard Grease
Limiting speed	22000 r/min
Reference speed	40000 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 Width; 2 Seals; Ball Bearing; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; Silicon Nitride Rolling Element   Electrical Insulated Internal Special
Outer Race Width	0.984 Inch   25 Millimeter
Inner Race Width	0 Inch   0 Millimeter
Outside Diameter	3.937 Inch   100 Millimeter
Manufacturer Name	SKF
Weight / Kilogram	0.752
Internal Clearance	C3-Loose
r <sub>a</sub> max.	1.5 mm
D <sub>a</sub> max.	91 mm
d <sub>a</sub> max.	62.1 mm
d <sub>a</sub> min.	54 mm
Bore Diameter (mm)	100
Outer Diameter (mm)	45
r <sub>a</sub> - max.	1.5 mm
r <sub>1,2</sub> min.	1.5 mm
d <sub>a</sub> - max.	62.1 mm
D <sub>a</sub> - max.	91 mm
d <sub>a</sub> - min.	54 mm
Minimum Buy Quantity	N/A
d <sub>2</sub> ?	54 mm
D <sub>2</sub> ?	86.7 mm
Harmonized Tariff Code	8482.10.50.68
Manufacturer Item	6309-2RS1TN9/HC5C3

Number	WT
Internal Special Features	Silicon Nitride Rolling Element   Electrical Insulated
Basic dynamic load rating C	55.3 kN
Basic dynamic load rating - C	16.8 kN
Maximum Capacity / Filling Slot	No
Fatigue load limit $P_u$	1.34 kN
Calculation factor $k_r$	0.025
Calculation factor $f_0$	13
Calculation factor - $f_0$	12.4
Calculation factor - $k_r$	0.025
Fatigue load limit - $P_u$	0.335 kN
Basic static load rating $C_0$	31.5 kN
Basic static load rating - $C_0$	7.8 kN