



Bearing No. NUP 309 ECP

F	58.5 mm
D	100 mm
B	25 mm
d	45 mm
Noun	Bearing
Bore	1.772 Inch 45 Millimeter
Width	0.984 Inch 25 Millimeter
UNSPSC	31171547
series:	NUP3
Profile	Complete with Outer and Inner Ring
Retainer	Yes
flanges:	(4) Flanges, Two-Piece Inner Ring
Category	Cylindrical Roller Bearing
Separable	No
Size (mm)	100x45x25
Inventory	0.0
Snap Ring	No
Width (mm)	25
bore type:	Straight
Bore Profile	Straight
Mass bearing	0.93 kg
Weight / LBS	2.108
maximum rpm:	8500 RPM
application:	Piston Type Machines, Rolling Mills, Spindles/Machine Tools
closure type:	Open

Product Group	B04144
D ₁	83.2 mm
Cage Material	Polymer
Inch - Metric	Metric
d ₁	64.4 mm
overall width:	25 mm
cage material:	Polyamide
Other Features	High Capacity 1 Rib Inner Ring with Side Plate 2 Rib Outer Ring Cage on Outer Ring ID
Relubricatable	Yes
fillet radius:	1.5 mm
bore diameter:	45 mm
Bearing number	NUP 309 ECP
Limiting speed	8500 r/min
finish/coating:	Uncoated
Reference speed	7500 r/min
number of rows:	1
Rolling Element	Cylindrical Roller Bearing
Precision Class	RBEC 1 ISO P0
ring separation:	Separable Ring
Manufacturer URL	http://www.skf.com
Limiting value e	0.2
Long Description	45MM Bore; Straight Bore Profile; 100MM Outside Diameter; 25MM Width; Polymer Cage Material; RBEC 1 ISO P0; Single Row; Not Separable; No Snap Ring; Relubricatable; C0-Medium Internal Clearance; Re
Outside Diameter	3.937 Inch 100

	Millimeter
precision rating:	RBEC 1 (ISO Class Normal)
bearing material:	Steel
outer ring width:	25 mm
outside diameter:	100 mm
Weight / Kilogram	0.957
Manufacturer Name	SKF
Bore Diameter (mm)	100
d_b min.	67 mm
D_a max.	91.4 mm
r_a max.	1.5 mm
d_a min.	54 mm
Internal Clearance	C0-Medium
Axial load factor Y	0.6
internal clearance:	C0
Outer Diameter (mm)	45
d_a - min.	54 mm
D_a - max.	91.4 mm
Minimum Buy Quantity	N/A
r_a - max.	1.5 mm
$r_{3,4}$ min.	1.5 mm
$r_{1,2}$ min.	1.5 mm
d_b - min.	67 mm
d_1 ?	64.4 mm
D_1 ?	83.2 mm
static load capacity:	100 kN
dynamic load capacity:	112 kN
$r_{1,2}$ - min.	1.5 mm
$r_{3,4}$ - min.	1.5 mm
Harmonized Tariff Code	8482.50.00.00
Manufacturer Item Number	NUP 309 ECP

Number of Rows of Rollers	Single Row
Basic dynamic load rating C	112 kN
operating temperature range:	Maximum of +300 °F
Basic dynamic load rating - C	112 kN
Fatigue load limit P_u	12.9 kN
Calculation factor k_r	0.15
Fatigue load limit - P_u	12.9 kN
Calculation factor - k_r	0.15
Basic static load rating C_0	100 kN
Basic static load rating - C_0	100 kN