



Bearing No. NUP 311 ECP

F	70.5 mm
D	120 mm
B	29 mm
d	55 mm
Noun	Bearing
Bore	2.165 Inch 55 Millimeter
Width	1.142 Inch 29 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)	120x55x29
Inventory	3.0
Snap Ring	No
Width (mm)	29
bore type:	Straight
Bore Profile	Straight
Mass bearing	1.5 kg
Weight / LBS	3.383
maximum rpm:	7000 RPM
application:	Piston Type Machines, Rolling Mills, Spindles/Machine Tools
closure type:	Open

Product Group	B04144
D ₁	100.3 mm
Cage Material	Polymer
Inch - Metric	Metric
d ₁	77.5 mm
overall width:	29 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:	2 mm
bore diameter:	55 mm
Bearing number	NUP 311 ECP
Limiting speed	7000 r/min
finish/coating:	Uncoated
Reference speed	6000 r/min
number of rows:	1
Rolling Element	Cylindrical Roller Bearing
Precision Class	RBEC 1 ISO P0
ring separation:	Separable Ring
Long Description	55MM Bore; Straight Bore Profile; 120MM Outside Diameter; 29MM Width; Polymer Cage Material; RBEC 1 ISO P0; Single Row; Not Separable; No Snap Ring; Relubricatable; C0-Medium Internal Clearance; Re
Outside Diameter	4.724 Inch 120 Millimeter
Limiting value e	0.2

Manufacturer URL	http://www.skf.com
Manufacturer Name	SKF
precision rating:	RBEC 1 (ISO Class Normal)
outside diameter:	120 mm
outer ring width:	29 mm
bearing material:	Steel
Weight / Kilogram	1.536
d_b min.	80 mm
D_a max.	109.2 mm
d_a min.	65 mm
Bore Diameter (mm)	120
r_a max.	2 mm
Internal Clearance	C0-Medium
Axial load factor Y	0.6
internal clearance:	C0
Outer Diameter (mm)	55
d_a - min.	65 mm
D_a - max.	109.2 mm
Minimum Buy Quantity	N/A
r_a - max.	2 mm
$r_{3,4}$ min.	2 mm
$r_{1,2}$ min.	2 mm
d_b - min.	80 mm
d_1 ?	77.5 mm
D_1 ?	100.3 mm
static load capacity:	143 kN
dynamic load capacity:	156 kN
$r_{1,2}$ - min.	2 mm
$r_{3,4}$ - min.	2 mm
Harmonized Tariff Code	8482.50.00.00
Manufacturer Item Number	NUP 311 ECP

Number of Rows of Rollers	Single Row
Basic dynamic load rating C	156 kN
operating temperature range:	Maximum of +300 °F
Basic dynamic load rating - C	156 kN
Fatigue load limit P_u	18.6 kN
Calculation factor k_r	0.15
Fatigue load limit - P_u	18.6 kN
Calculation factor - k_r	0.15
Basic static load rating C_0	143 kN
Basic static load rating - C_0	143 kN