



Bearing No. 22311 E/VA405

b	5.5 mm
K	3 mm
d	55 mm
D	120 mm
B	43 mm
Noun	Bearing
Bore	2.165 Inch 55 Millimeter
Width	1.693 Inch 43 Millimeter
UNSPSC	31171510
series:	223
Category	Spherical Roller Bearing
Size (mm)	120x55x43
Enclosure	Open
Inventory	0.0
cage type:	Inner Ring Guided
bore type:	Straight
Width (mm)	43
application:	Vibratory Applications
Weight / LBS	5.242
maximum rpm:	5600 RPM
Bore Profile	Straight
Mass bearing	2.45 kg
Product Group	B04311
Inch - Metric	Metric
closure type:	Open
d ₂	70.1 mm
Cage Material	Steel
D ₁	102 mm

Keyword String	Spherical
Relubricatable	Yes
bore diameter:	55 mm
cage material:	Steel
Bearing number	22311 E/VA405
overall width:	43 mm
Limiting speed	5600 r/min
fillet radius:	2 mm
Withdrawal Nut	Not Applicable
Mounting Method	Shaft Mount
Rolling Element	Spherical Roller Bearing
Reference speed	4300 r/min
finish/coating:	Uncoated
outer ring type:	Not Split
Outside Diameter	4.724 Inch 120 Millimeter
Manufacturer URL	http://www.skf.com
Long Description	55MM Straight Bore; 120MM Outside Diameter; 43MM Width; C0-Medium Clearance; Shaft Mount; Double Row of Spherical Roller Bearings; Steel Cage Material; Open Enclosure; Relubricatable
outside diameter:	120 mm
outer ring width:	43 mm
precision rating:	Not Rated
Manufacturer Name	SKF
Weight / Kilogram	2.38
bearing material:	Steel
Withdrawal Sleeve	Not Applicable
Internal Clearance	C0-Medium

r_a max.	2 mm
d_a min.	66 mm
Bore Diameter (mm)	120
D_a max.	109 mm
Adapter Part Number	Not Applicable Inch Not Applicable Millimeter
Outer Diameter (mm)	55
internal clearance:	C0
Calculation factor e	0.35
d_a - min.	66 mm
Minimum Buy Quantity	N/A
D_a - max.	109 mm
$r_{1,2}$ min.	2 mm
r_a - max.	2 mm
static load capacity:	280 kN
D_1 ?	102 mm
d_2 ?	70.1 mm
lubrication hole type:	Lubrication Groove & Hole
Harmonized Tariff Code	84823080
dynamic load capacity:	270 kN
$r_{1,2}$ - min.	2 mm
Calculation factor - e	0.35
Number of Rows of Rollers	Double Row
Basic dynamic load rating C	280 kN
operating temperature range:	Maximum of +390 °F
Basic dynamic load rating - C	280 kN
Fatigue load limit P_u	30 kN
Calculation factor Y_1	1.9
Calculation factor Y_2	2.9

Calculation factor Y_0	1.8
Calculation factor - Y_2	2.9
Fatigue load limit - P_u	30 kN
Calculation factor - Y_0	1.8
Calculation factor - Y_1	1.9
Basic static load rating C_0	280 kN
Basic static load rating - C_0	280 kN
Permissible linear acceleration (oil lubrication)	255 g [m/s]
Permissible rotational acceleration (oil lubrication)	765 g [m/s]