



Bearing No. 22309 E/VA405

K	3 mm
b	6 mm
d	45 mm
D	100 mm
B	36 mm
series:	223
Category	Roller Bearings
Size (mm)	100x45x36
Inventory	0.0
cage type:	Inner Ring Guided
Width (mm)	36
bore type:	Straight
application:	Vibratory Applications
maximum rpm:	7000 RPM
Mass bearing	1.4 kg
D ₁	83.4 mm
d ₂	57.6 mm
closure type:	Open
Product Group	B04311
fillet radius:	1.5 mm
overall width:	36 mm
cage material:	Steel
bore diameter:	45 mm
Bearing number	22309 E/VA405
Limiting speed	7000 r/min
finish/coating:	Uncoated
Reference speed	5300 r/min
outer ring type:	Not Split
outside diameter:	100 mm
outer ring width:	36 mm

precision rating:	Not Rated
Manufacturer Name	SKF
bearing material:	Steel
Weight / Kilogram	1.421
d _a min.	54 mm
Bore Diameter (mm)	100
D _a max.	91 mm
r _a max.	1.5 mm
internal clearance:	C4
Outer Diameter (mm)	45
Calculation factor e	0.37
D _a - max.	91 mm
d _a - min.	54 mm
r _a - max.	1.5 mm
Minimum Buy Quantity	N/A
r _{1,2} min.	1.5 mm
D ₁ ?	83.4 mm
d ₂ ?	57.6 mm
static load capacity:	183 kN
Calculation factor - e	0.37
lubrication hole type:	Lubrication Groove & Hole
dynamic load capacity:	183 kN
r _{1,2} - min.	1.5 mm
Basic dynamic load rating C	190 kN
operating temperature range:	Maximum of +390 °F
Basic dynamic load rating - C	190 kN
Fatigue load limit P _u	19.6 kN
Calculation factor Y ₁	1.8
Calculation factor Y ₂	2.7

Calculation factor Y_0	1.8
Fatigue load limit - P_u	19 kN
Calculation factor - Y_1	1.8
Calculation factor - Y_2	2.7
Calculation factor - Y_0	1.8
Basic static load rating C_0	183 kN
Basic static load rating - C_0	176 kN
Permissible linear acceleration (oil lubrication)	284 g [m/s]
Permissible rotational acceleration (oil lubrication)	952 g [m/s]