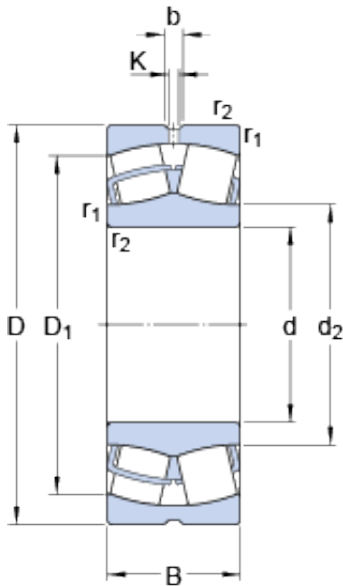




SKF 22309 E/VA405 spherical roller bearings

Bearing No. 22309 E/VA405



22309 E/VA405 Bearing 2D drawings and 3D CAD models

Size	100x45x36 mm
Bore Diameter	100 mm
Outer Diameter	45 mm
Width	36 mm
d	45 mm
D	100 mm
B	36 mm
d ₂	57.6 mm
D ₁	83.4 mm
b	6 mm
K	3 mm
r _{1,2} - min.	1.5 mm
d _a - min.	54 mm
D _a - max.	91 mm
r _a - max.	1.5 mm
Basic dynamic load rating - C	190 kN
Basic static load rating - C ₀	176 kN
Fatigue load limit - P _u	19 kN
Reference speed	5300 r/min
Limiting speed	7000 r/min
Calculation factor - e	0.37
Calculation factor - Y ₁	1.8
Calculation factor - Y ₂	2.7
Calculation factor - Y ₀	1.8



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Permissible rotational acceleration (oil lubrication)	952 g [m/s]
Permissible linear acceleration (oil lubrication)	284 g [m/s]
Category	Roller Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	1.421
EAN	7316571636481
Product Group	B04311
bore diameter:	45 mm
operating temperature range:	Maximum of +390 ° F
outside diameter:	100 mm
cage material:	Steel
overall width:	36 mm
bearing material:	Steel
bore type:	Straight
cage type:	Inner Ring Guided
outer ring type:	Not Split
precision rating:	Not Rated
internal clearance:	C4
application:	Vibratory Applications
closure type:	Open
finish/coating:	Uncoated
lubrication hole type:	Lubrication Groove & Hole
outer ring width:	36 mm
dynamic load capacity:	183 kN
fillet radius:	1.5 mm
static load capacity:	183 kN
series:	223



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maximum rpm:	7000 RPM
d_2	57.6 mm
D_1	83.4 mm
$r_{1,2}$ min.	1.5 mm
d_a min.	54 mm
D_a max.	91 mm
r_a max.	1.5 mm
Basic dynamic load rating C	190 kN
Basic static load rating C_0	183 kN
Fatigue load limit P_u	19.6 kN
Calculation factor e	0.37
Calculation factor Y_1	1.8
Calculation factor Y_2	2.7
Calculation factor Y_0	1.8
Mass bearing	1.4 kg