



**Bearing No. 22310 E/VA405**

b	6 mm
K	3 mm
d	50 mm
D	110 mm
B	40 mm
Noun	Bearing
Bore	1.969 Inch   50 Millimeter
Width	1.575 Inch   40 Millimeter
UNSPSC	31171510
series:	223
Category	Spherical Roller Bearing
Size (mm)	110x50x40
Enclosure	Open
Inventory	0.0
cage type:	Inner Ring Guided
bore type:	Straight
Width (mm)	40
application:	Vibratory Applications
Weight / LBS	4.137
maximum rpm:	6300 RPM
Bore Profile	Straight
Mass bearing	1.9 kg
Product Group	B04311
Inch - Metric	Metric
closure type:	Open
d <sub>2</sub>	63.9 mm
Cage Material	Steel
D <sub>1</sub>	91.9 mm

Keyword String	Spherical
Relubricatable	Yes
bore diameter:	50 mm
cage material:	Steel
Bearing number	22310 E/VA405
overall width:	40 mm
Limiting speed	6300 r/min
fillet radius:	2 mm
Withdrawal Nut	Not Applicable
Mounting Method	Shaft Mount
Rolling Element	Spherical Roller Bearing
Reference speed	4800 r/min
finish/coating:	Uncoated
outer ring type:	Not Split
Outside Diameter	4.331 Inch   110 Millimeter
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Long Description	50MM Straight Bore; 110MM Outside Diameter; 40MM Width; C0-Medium Clearance; Shaft Mount; Double Row of Spherical Roller Bearings; Steel Cage Material; Open Enclosure; Relubricatable
outside diameter:	110 mm
outer ring width:	40 mm
precision rating:	Not Rated
Manufacturer Name	SKF
Weight / Kilogram	1.878
bearing material:	Steel
Withdrawal Sleeve	Not Applicable
Internal Clearance	C0-Medium

$r_a$ max.	2 mm
$d_a$ min.	61 mm
Bore Diameter (mm)	110
$D_a$ max.	99 mm
Outer Diameter (mm)	50
Adapter Part Number	Not Applicable Inch   Not Applicable Millimeter
internal clearance:	C0
$D_a$ - max.	99 mm
Calculation factor e	0.37
$d_a$ - min.	61 mm
Minimum Buy Quantity	N/A
$r_{1,2}$ min.	2 mm
$r_a$ - max.	2 mm
static load capacity:	224 kN
$D_1$ ?	91.9 mm
$d_2$ ?	63.9 mm
lubrication hole type:	Lubrication Groove & Hole
Harmonized Tariff Code	84823080
dynamic load capacity:	220 kN
$r_{1,2}$ - min.	2 mm
Calculation factor - e	0.37
Number of Rows of Rollers	Double Row
Basic dynamic load rating C	228 kN
operating temperature range:	Maximum of +390 °F
Basic dynamic load rating - C	228 kN
Fatigue load limit $P_u$	24 kN
Calculation factor $Y_1$	1.8
Calculation factor $Y_2$	2.7

Calculation factor $Y_0$	1.8
Calculation factor - $Y_2$	2.7
Fatigue load limit - $P_u$	23.2 kN
Calculation factor - $Y_0$	1.8
Calculation factor - $Y_1$	1.8
Basic static load rating $C_0$	224 kN
Basic static load rating - $C_0$	216 kN
Permissible linear acceleration (oil lubrication)	275 g [m/s]
Permissible rotational acceleration (oil lubrication)	834 g [m/s]