

# 21310EAE4 NSK 50x110x27mm SIR

## 10.3 Spherical roller bearings

Bearing number	21310EAE4
Size (mm)	50x110x27
Brand	NSK
Bore Diameter (mm)	50
Outer Diameter (mm)	110
Width (mm)	27
d	50 mm
D	110 mm
B	27 mm
C	27 mm
r min.	2 mm
da min.	60 mm
da max.	72 mm
Da min.	60 mm
Da max.	100 mm
ra max.	2 mm
Weight	1.21 Kg
Basic dynamic load rating (C)	142 kN
Basic static load rating (C0)	174 kN
(G1) Grease Lubrication Speed	4300 r/min
(G1) Oil Lubrication Speed	5300 r/min
Calculation factor (e)	0.23
Calculation factor (f0)	2.9
Calculation factor (f1)	4.4
Category	Spherical Roller Bearings
ISO Inventory	8-0
Manufacturer Name	NSK
Maximum Buy Quantity	N/A
Weight / Kilogram	1.23
SKU	80257643059
Product Group - BS	804311
Internal Clearance	CO-Medium
Mounting Method	Shaft Mount
Rolling Element	Spherical Roller Bearing
Roll Profile	Straight
Cage Material	Steel
Enclosure	Open
Number of Rows of Rollers	Double Row
Relubricatable	Yes
Retained Shown	Not Applicable
Inch - Metric	Metric
Long Description	100% Straight Bore; 110% Outside Diameter; 27% Width; CO-Medium Clearance; Shaft Mount; Double Row of Spherical Roller Bearings; Steel Cage Material; Open Enclosure; Relubricatable
Category - BS1	Spherical Roller Bearing
UNSC	311110
Harmonized Tariff Code	84823000
NSN	69050108
Keyword String	Spherical
Manufacturer URL	http://www.nskamericas.com
Manufacturer Item Number	21310EAE4
Weight / LBS	1.28
Outside Diameter	4.331 Inch   110 Millimeter
Width	1.063 Inch   27 Millimeter
Adapter Part Number	Not Applicable Inch   Not Applicable Millimeter
Bore	1.969 Inch   50 Millimeter
bore diameter maximum rpm	5600 RPM
outside diameter	110 mm
operating temperature range	Maximum of +200 °C
overall width	27 mm
cage material	Steel
bore type	Straight
bearing material	Steel
outer ring type	Not Split
cage type	Smear Ring Guided
internal clearance	CO
precision rating	BBEC 1 (ISO Class Normal)
closure type	Open
finish/coating	Uncoated
lubrication hole type	Lubrication Groove & Hole
outer ring width	27 mm
dynamic load capacity	170000 N
fillet radius	2 mm
static load capacity	170000 N
surface	215
Y1	3
ISO	21310EAE4
LangID	1
Y2	110
W	27
Y3	4.4
MaxA rpm	8000
W	27
CAD	<a href="https://service.us21ad.co.jp/psm/maker_login.php?maker=NSK&amp;BGLanguage=en&amp;infomark=rb/roller_bearings/spherical_rb/cylindrical_bore_wash&amp;prjserver=(5378)MPS">https://service.us21ad.co.jp/psm/maker_login.php?maker=NSK&amp;BGLanguage=en&amp;infomark=rb/roller_bearings/spherical_rb/cylindrical_bore_wash&amp;prjserver=(5378)MPS</a> , (000E=21310EAE4), (D=50), (D=110), (B=27.0), (B=2.0), (CR=170000), (CR=170000), (L1=3300), (L=4000), (L=5000), (DA=40), (DA=72.000), (DA3=100), (DA4=90), (M=2.0), (E=0.23), (Y2=4.4), (Y3=3.0), (YB=2.9), (M55=1.23)
flatface	width_3700PM
G1 rpm	5000
Y0	2.9
M55	1.21
G05 rpm	4300
ra	2
T08 rpm	2
G0 rpm	5300
DE	215
Y0	99.856
Prod Type3	SRS,CYS,CS
X1	1
X2	6.07
S05	10.3
e	0.23
DA	110
Y05	53.02
Y06	21310EAE4
Z	10
ALP2	38
ALP1	8
ALP3	0
D_a max	100
D_a min	60
y051	21310EAE4
MPS	MPS
ALPM	0.151
S01	66.583
r	2
SPG	3138
SPG	3
BS	74.113
CALCURL	/Bear-IngGuide/Item/Calculation.jsp