21309EAE4 NSK X1 1 45x100x25mm Spherical roller bearings

Bearing number	21309EAE4
Size (mm)	45x100x25
Brand	NSK
Bore Diameter (mm)	45
Outer Diameter (mm)	100
Width (mm)	25
d	45 mm
D	100 mm
B	25 mm
C	25 mm
r min.	1.5 mm
da min.	54 mm
da max	65 mm
Da min	89 mm
Da max.	91 mm
ra max.	1.5 mm
Weight	0.96 Kg
Basic dynamic load rating (C)	119 kN
Basic static load rating (C0)	144 kN
(Grease) Lubrication Speed	4500 r/min
(Oil) Lubrication Speed	5600 r/min
Calculation factor (e)	0.23
Calculation factor (Y0)	2.8
Calculation factor (Y2)	4.3
Category	Spherical Roller Bearings
BDI Inventory	0.0
Manufacturer Name	NSK
Minimum Buy Quantity	N/A
Weight / Kilogram	0.975
EAN	0029176410611
Product Group – BDI	804311
Internal Clearance	C0-Medium
Mounting Method	Shaft Mount
Rolling Element	Spherical Roller Bearing
Bore Profile	Straight
Cage Material	Steel
Enclosure	Open
Number of Rows of Rollers	Double Row
Relubricatable	Yes
Withdrawal Sleeve	Not Applicable
Inch – Metric	Metric
Long Description	45MM Straight Bore; 100MM Outside Diameter; 25MM Width; C0-Medium Clearance; Shaft Mount; Double Row of Spherical Roller Bearings; Steel Cage Material; Open Enclosure; Relubricatable
Category – BDI	Spherical Roller Bearing
UNSPSC	31171510
Harmonized Tariff Code	8482.3080
Noun	Bearing
Keyword String	Spherical
Manufacturer URL	http://www.nskamericas.com
Manufacturer Item Number	21309EAE4
Weight / LBS	0
Outside Diameter	3.937 Inch | 100 Millimeter
Adapter Part Number	Not Applicable Inch | Not Applicable Millimeter
Width	0.984 Inch | 25 Millimeter
Bore	1.772 Inch | 45 Millimeter
bore diameter:	45 mm
maximum rpm:	6300 RPM
outside diameter:	100 mm
operating temperature range:	Maximum of +200 °C
overall width:	25 mm
cage material:	Steel
bore type:	Straight
bearing material:	Steel
outer ring type:	Not Split
cage type:	Inner Ring Guided
internal clearance:	C0
precision rating:	RBEC 1 (ISO Class Normal)
closure type:	Open
finish/coating:	Uncoated
lubrication hole type:	Lubrication Groove & Hole
outer ring width:	25 mm
dynamic load capacity:	149000 N
fillet radius:	1.5 mm
static load capacity:	144000 N
series:	213
Y3	2.9
hidfobi	21309EAE4
LangID	1
Y1	2.9
D_	100
Y2	4.3
Macha rpm	9000
B_	25
CAD	https://service.web2cad.co.jp/pcom/maker_login.php?Maker=NSK_RB&language=j&&info=nsk_rb/roller_bearings/spherical_rb/cylindrical_bore_asmtab.prj&varset={STAN=HPS}.{ORDER=21309EAE4}.{SD=45}.{D=100}.{B=25.0}.{R=1.5}.{CR1=149000}.{COR1=144000}.{LT=6000}.{LM=9000}.{LG=5000}.{LD=6300}.{DA1=54}.{DA2=65.000}.{DA3=91}.{DA4=89}.{RA=1.5}.{E=0.23}.{Y2=4.3}.{Y3=2.9}.{Y0=2.8}.{MASS=0.96}
da min	54
hidfabie	wcat_NSSPMR
Oil rpm	6300
Y0	2.8
mass	0.96
GRS rpm	5000
ra	1.5
TSR rpm	6000
C0	144
DE_	90.316
X0	1
Prod_Type3	SRB_CTB_CB
X1	1
X2	0.67
SIR	9.45
e	0.23
DA_	11.8
bomp	21309EAE4
Z_	19
ALP2	50
ALP1	8
ALP3	0
D_a max	91
D_a min	89
yobi	21309EAE4
HPS	HPS
ALPHA_	0.154
SDM_	78.656
r	1.5
KBRG	2328
SBRG	3
DI_	66.996
calcUrl	/BearingGuide/html/calculation.jsp