

2220EAKE4 NSK 100x180x46mm closure type: Open Spherical roller bearings

Bearing number	2220EAKE4
SKF (mm)	180/120/46
Brand	NSK
Bore Diameter (mm)	100
Outer Diameter (mm)	180
Width (mm)	46
d	100 mm
D	180 mm
B	46 mm
C	46 mm
r min.	2.1 mm
da min.	112 mm
da max.	119 mm
Da min.	180 mm
Da max.	180 mm
ra max.	2 mm
Weight	4.84 Kg
Basic dynamic load rating (C)	363 kN
Basic static load rating (C0)	409 kN
Lubrication Speed (G1)	2400 r/min
Lubrication Speed (G11)	3200 r/min
Calculation factor (a1)	0.24
Calculation factor (F1)	2.0
Calculation factor (F2)	4.3
Category	Spherical Roller Bearings
BSI Inventory	0.5
Manufacturer Name	NSK
Minimum Buy Quantity	N/A
Weight / Kilogram	4.8
SKF	6021761146
Product Group - BSI	04411
Internal Clearance	C0-Medium
Mounting Method	Adapter Mount
Rolling Element	Spherical Roller Bearing
Bore Profile	Tapered
Cage Material	Steel
Enclosure	Open
Number of Rows of Rollers	Double Row
Relubricatable	Yes
Withdrawal Sleeve	AKC320 (Specify bore)
Inch - Metric	Metric
Long Description	180MM Tapered Bore; 180MM Outside Diameter; 46MM Width; C0-Medium Clearance; Adapter Mount; Double Row of Spherical Roller Bearings; Steel Cage Material; Open Enclosure; Relubricatable; Adapter Part Number - H120 (Specify bore)
Other Features	Order adapter or withdrawal sleeve or not separately. Others may be available
Category - BSI	Spherical Roller Bearing
UNSC	311110
Harmonized Tariff Code	84623000
NSN	Bearing
Keyword String	Spherical
Manufacturer URL	http://www.nskamericas.com
Manufacturer Item Number	2220EAKE4
Weight / LBS	4.8
Width	1.811 Inch 46 Millimeter
Adapter Part Number	SM402 H120 H420 H820 (Specify Bore) Inch H120 (Specify Bore) Millimeter
Bore	3.937 Inch 100 Millimeter
Outside Diameter	7.087 Inch 180 Millimeter
Bore Diameter	100 mm
Maximum rpm	3600 RPM
outside diameter	180 mm
operating temperature range	Maximum of +200 °C
overall width	46 mm
cage material	Steel
bore type	Tapered 1:12
bearing material	Steel
outer ring type	Not Split
cage type	Roller Guided
internal clearance	C0
precision rating	PREC 1 (ISO Class Normal)
closure type	Open
finish/coating	Uncoated
lubrication hole type	Lubrication Groove & Hole
outer ring width	46 mm
dynamic load capacity	455000 N
static load capacity	2.1 mm
fatigue resistance	480000 N
series	222
YS	2.0
ISO	2220EAKE4
YS	2.0
D	180
YS	4.3
YS	4300
NSK rpm	46
URL	https://service.us.nsk.com/lookup.asp?maker=NSK&language=J&info=nsk_rb/roller_bearings/spherical_rb/tapered_bore_adapter_pz/bsiitem=ESTM-HP1_00020+2220EAKE4_(C0)-100_(D=100)_E=46_01_(B=2.1)_C01=455000_(C00=480000_(L1=3600)_L0=4300)_L1=2000_(L2=3600)_DAX=112_(DAX=119)_DAX=160_(DAX=160)_DAX=2_01_(E=4.3)_E2=4.3_(F1=2.0)_F2=4.3_(M105=4.84)
NSK	ecat_R03P06
NSK rpm	3600
YS	2.0
mass	4.84
NSK rpm	2400
YS	2.0
NSK rpm	3600
C0	409
SE	363/385
NS	1
Prod_Type1	SM6_C10_10
XS	1
X2	0.67
SIR	18.2
e	0.24
DA	20.9
bump	2220EAKE4
Z	10
ALP0	55
ALP1	8
ALP2	0
D_a max	180
D_a min	180
YS	2220EAKE4
IPS	IPS
ALP0a	0.156
SP	143/153
e	2.1
KMG	2320
SMC	20
DL	121.81
catdir1	/bearingguide/html/calculation.jsp