22220EAE4 NSK 100x180x46mm maximum rpm: 3600 RPM Spherical roller bearings

Bearing number	22220EAE4
Size (mm)	100x180x46
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	160 mm
Da max.	168 mm
ra max.	2 mm
Weight	4.84 Kg
Basic dynamic load rating (C)	365 kN
Basic static load rating (C0)	490 kN
(Grease) Lubrication Speed	2400 r/min
(Oil) Lubrication Speed	3200 r/min
Calculation factor (e)	0.24
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	4.92
EAN	0029176411489
Product Group – BDI	004311
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	100MM Straight Bore; 180MM Outside Diameter; 46MM 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	84823080
Noun	Bearing
Keyword String	Spherical
Manufacturer URL	http://www.nskamericas.com
Manufacturer Item Number	22220EAE4
Weight / LBS	4.92
Bore	3.937 Inch | 100 Millimeter
Outside Diameter	7.087 Inch | 180 Millimeter
Width	1.811 Inch | 46 Millimeter
Adapter Part Number	Not Applicable Inch | Not Applicable 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:	Straight
bearing material:	Steel
outer ring type:	Not Split
cage type:	Roller 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:	46 mm
dynamic load capacity:	455000 N
fillet radius:	2.1 mm
static load capacity:	490000 N
series:	222
Y3	2.9
hidTabi	22220EAE4
LangID	1
Y1	2.9
D_	180
Y2	4.3
Macha rpm	4300
B_	46
CAD	https://service.web2cad.co.jp/pcom/maker_login.php?Maker=NSK_RB&language=ja&info=nsk_rb/roller_bearings/spherical_rb/cylindrical_bore_asmtab.prj&varset={STAN=MPS}.{ORDER=22220EAE4}.{SD=100}.{D=180}.{B=46.0}.{R=2.1}.{CR1=455000}.{COR1=490000}.{LT=3600}.{LM=4300}.{LG=2800}.{LO=3600}.{DA1=112}.{DA2=119.000}.{DA3=168}.{DA4=160}.{RA=2.0}.{E=0.24}.{Y2=4.3}.{Y3=2.9}.{Y0=2.8}.{MASS=4.84}
da min	112
hidTable	ecat_NSSPMR
Oil rpm	3600
Y0	2.8
mass	4.84
GRS rpm	2800
ra	2
TSR rpm	3600
C0	490
DE_	163.105
X0	1
Prod_Type3	SRB_CTB_CB
X1	1
X2	0.67
SIR	18.2
e	0.24
DA_	20.9
bomp	22220EAE4
Z_	19
ALP2	55
ALP1	8
ALP3	0
D_a max	168
D_a min	160
yobi	22220EAE4
MPS	MPS
ALPHA	0.156
SDM_	142.457
r	2.1
KBRG	2528
SBRG	22
DI_	121.81
calcUrl	/BearingGuide/html/calculation.jsp