

21317EAKE4 NSK 85x180x41mm

Calculation factor (e) 0.24

Spherical roller bearings

Bearing number	21317EAKE4
Size (mm)	85x180x41
Brand	NSK
Bore Diameter (mm)	85
Outer Diameter (mm)	180
Width (mm)	41
d	85 mm
D	180 mm
B	41 mm
C	41 mm
r min.	3 mm
da min.	90 mm
da max.	180 mm
Da min.	142 mm
Da max.	180 mm
ra max.	2.5 mm
Weight	5.2 Kg
Basic dynamic load rating (C)	289 kN
Basic static load rating (C0)	395 kN
(Grease) Lubrication Speed	2800 r/min
(Oil) Lubrication Speed	3600 r/min
Calculation factor (e)	0.24
Calculation factor (Y1)	2.0
Calculation factor (Y2)	4.3
Category	Spherical Roller Bearings
BDI Symmetry	0.4
Manufacturer Name	NSK
Minimum Buy Quantity	N/A
Weight / Kilogram	5.25
SKF	6020176410912
Product Group - BDI	604311
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
Retractable	Yes
Withdrawal Sleeve	NS17 (Specify bore)
Inch - Metric	Metric
Long Description	80MM Tapered Bore; 180MM Outside Diameter; 41MM Width; C0-Medium Clearance; Adapter Mount; Double Row of Spherical Roller Bearings; Steel Cage Material; Open Enclosure; Retractable; Adapter Part Number - NS17 (Specify bore)
Other Features	Order adapter or withdrawal sleeve or not separately. Others may be available
Category - BDI	Spherical Roller Bearing
IMPC	31171010
Harmonized Tariff Code	84823000
Base	Bearing
Keyword String	Spherical
Manufacturer BDI	http://www.nskamericas.com
Manufacturer Item Number	21317EAKE4
Weight / LBS	5.25
Outside Diameter	7.087 Inch 180 Millimeter
Width	1.614 Inch 41 Millimeter
Bore	3.346 Inch 85 Millimeter
Adapter Part Number	SMW17 NS17 NS17 (Specify Bore) Inch NS17 (Specify bore) Millimeter
bore diameter:	85 mm
maximum rpm:	4000 3000
outside diameter:	180 mm
operating temperature range:	Maximum of +200 °C
overall width:	41 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:	BEC 1 (ISO Class Normal)
closure type:	Open
lubrication:	Lubricated
lubrication hole type:	Lubrication Groove & Hole
outer ring width:	41 mm
dynamic load capacity:	300000 N
fatigue load capacity:	3 mm
static load capacity:	350000 N
series:	213
Y1	2.0
Y2	4.3
width:	21317EAKE4
length:	1
D	2.0
d	180
Y2	4.3
metric rpm	5000
B	41
CAD	https://service.web2ad.co.jp/pc/maker_login.php?maker=NSK_BBS&language=ja&inf=nsk_rb/roller_bearings/spherical_rb/tapered_bore_watub.prj&series=3740-095 (C0D09-21317EAKE4) (D=85) (D=180) (B=41.0) (B=3.0) (C0=360000) (C0R=350000) (L1=1800) (LM=5000) (LG=3000) (LD=4000) (DA1=95) (DA2=180) (DA3=160) (DA4=142) (EM=2.5) (E=0.24) (Y1=2.0) (Y2=4.3) (WMS=5-20)
da min	90
fatigue	weat_NSKPBR
d11 rpm	4000
Y1	2.0
mass	5.2
GS rpm	3000
ra	2.5
DAK rpm	3600
C0	395
SE	145.223
XS	1
Prod_Type3	SMB_CTB_TB
XS	1
X2	0.47
SLR	15.9
e	0.24
DA	17.69
bore	21317EAKE4
Z	20
ALP2	16
ALP1	0
ALP3	0
D_a_max	180
D_a_min	142
y0b1	21317EAKE4
SPS	095
ALPM	0.156
SDM	127.689
r	3
KMG	2128
SRG	3
SD	109.504
skd101	#bearingcalculation.js