

22209EAE4

NSK

45x85x23mm

Prod_Type3

SRB_CTB_CB

Spherical roller bearings

Bearing number	22209EAE4
Size (mm)	45x85x23
Brand	NSK
Bore Diameter (mm)	45
Outer Diameter (mm)	85
Width (mm)	23
d	45 mm
D	85 mm
B	23 mm
C	23 mm
r min.	1.1 mm
da min.	52 mm
da max	54 mm
Da min	75 mm
Da max	78 mm
ra max.	1 mm
Weight	0.55 Kg
Basic dynamic load rating (C1)	94.3 kN
Basic static load rating (C0)	111 kN
Lubrication Speed	5300 r/min
(G1)	
Lubrication Speed	7000 r/min
Calculation factor (e)	0.25
Calculation factor (f0)	2.6
Calculation factor (f1)	2.9
Calculation factor (f2)	
Category	Spherical Roller Bearings
B02 Secondary	0.0
Manufacturer Name	NSK
Minimum Qty	N/A
Weight / Kilogram	0.55
Part	080517091037
Product Group - B01	084111
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
Retained Shown	Not Applicable
Inch - Metric	Metric
Long Description	45MM Straight Bore; 85MM Outside Diameter; 23MM Width; C0-Medium Clearance; Shaft Mount; Double Row of Spherical Roller Bearings; Steel Cage Material; Open Enclosure; Relubricatable
Category - B01	Spherical Roller Bearing
UNSPSC	31111110
Normalized Tariff Code	84020000
Unit	Bearing
Keyword String	Spherical
Manufacturer URL	http://www.nskamericas.com
Manufacturer Item Number	22209EAE4
Weight / LBS	0.55
Bore	1.772 Inch 45 Millimeter
Outside Diameter	3.346 Inch 85 Millimeter
Width	0.906 Inch 23 Millimeter
Adapter Part Number	Not Applicable Inch Not Applicable Millimeter
bore diameter:	45 mm
maximum rpm:	5300 RPM
outside diameter:	85 mm
operating temperature range:	Maximum of +200 °C
overall width:	23 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:	P0EC 1 (ISO Class Normal)
closure type:	Open
finish/coating:	Uncoated
lubrication hole type:	Lubrication Groove & Hole
outer ring width:	23 mm
dynamic load capacity:	110000 N
fatigue resistance:	1.1 mm
static load capacity:	111000 N
series:	222
VS	2.7
ISO9001	22209EAE4
Length	1
VS	2.7
B1	85
VS	3.3
Nuclei rpm	11000
B	23
C0	(https://service.ushc.ca.ca/jsp/printmaker_login.php?maker=NSK_98&language=en&info=nsk_98/roller_bearings/spherical_98/cylindrical_bore_grease/pr/bearings-(5708-0P5)-(20009-22209EAE4)-(D=45)-(D=85)-(B=23.8)-(B=1.1)-(C0=110000)-(C0F=110000)-(L7=4300)-(L8=11000)-(L9=6000)-(L0=7000)-(B3=12)-(B3=54.000)-(B3=75)-(B3=75)-(B3=1.8)-(D=25)-(C2=3.8)-(C2=2.7)-(C2=2.8)-(P05=0.55))
da min	52
ISO 100	ecol_H05P08
ISO 100	7500
VS	2.6
MS1	0.55
G01 rpm	5000
ra	1
T01 rpm	6100
G0	111
DE	76.9
R0	1
Prod_Type3	SRB_CTB_CB
R1	1
R2	0.67
S01	0.74
A	0.26
DA	10.35
comp	
Z	18
ALP2	18
ALP1	0
ALP3	0
D_a max	78
D_a min	75
ISO1	22209EAE4
0P5	0P5
ALP0	0.100
S01	56.492
r	1.1
K005	2320
0005	22
DE	56.492
calc01	/bearingguide/html/calculation.jsp