

22205CE4 NSK ALPHA_ 0.23

25x52x18mm Spherical roller bearings

Bearing number	22205CE4
NSK (int)	22205CE4
Brand	NSK
Bore Diameter (mm)	25
Outer Diameter (mm)	52
Width (mm)	18
d	25 mm
D	52 mm
B	18 mm
C	18 mm
r min.	1 mm
da min.	31 mm
da max.	31 mm
Da min.	45 mm
Da max.	46 mm
ra max.	1 mm
Weight	0.17 Kg
Basic dynamic load rating (C)	37.5 kN
Basic static load rating (C0)	37 kN
(Grease) Lubrication Speed	7100 r/min
(Oil) Lubrication Speed	9000 r/min
Calculation factor (e)	0.35
Calculation factor (f0)	1.9
Calculation factor (f1)	2.9
Category	Spherical Roller Bearings
BEC Inventory	0.0
Manufacturer Name	NSK
Minimum Buy Quantity	N/A
Weight / Kilogram	0.08
EAN	8020176078905
Product Group - BEC	084311
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
Without Sleeve	Not Applicable
Inch - Metric	Metric
Lang. Description	20mm Straight Bore; 52mm Outside Diameter; 18mm Width; C0-Medium Clearance; Shaft Mount; Double Row of Spherical Roller Bearings; Steel Cage Material; Open Enclosure; Relubricatable
Category - BEC	Spherical Roller Bearing
HSNC	312130
Harmonized Tariff Code	84823000
Mean	Bearing
Keyword String	Spherical
Manufacturer URL	http://www.nskamericas.com
Manufacturer Item Number	22205CE4
Weight / LBS	0.38
Adapter Part Number	Not Applicable Inch Not Applicable Millimeter
Width	0.709 Inch 18 Millimeter
Bore	0.984 Inch 25 Millimeter
Outside Diameter	2.047 Inch 52 Millimeter
bore diameter: machine rpm	9000 RPM
outside diameter: machine rpm	52 mm
operating temperature range:	Maximum of +200 °C
overall width:	18 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:	BEC 1 (ISO Class Normal)
closure type:	Open
finish/coating:	Uncoated
Lubrication hole type:	Lubrication Groove & Hole
outer ring width:	18 mm
dynamic load capacity:	37500 N
fatigue load capacity:	1 mm
static load capacity:	37000 N
series:	222
Y0	1.9
Y1	222
LangID	22205CE4
Y2	1
Y3	1.9
Y4	52
Y5	2.9
Mecha rpm	18
Q	31
CAD	https://service.web2cad.co.jp/pcon/maker_login.php?maker=NSK_R&lang=en&id=nsk_rb/roller_bearings/spherical_rb/cylindrical_bore_wmh&prj=varnet-1STAM-1_(ORDEN=22205CE4_(S0=25)-(B=52)-(D=18.8)-(D=1.8)-(CR1=37500)-(CR0=37000)-(L=18000)-(LM=1)-(LG=7100)-(LD=9000)-(DA1=31)-(DA2=31.000)-(DA3=46)-(DA4=45)-(DA=1.8)-(E=0.35)-(F0=2.9)-(F1=1.9)-(F0=1.9)-(MSS=0-17))
da min	31
da1 rpm	9000
Y0	1.9
mass	0.17
GRC rpm	7100
ra	1
DM rpm	10000
C0	37
BC	46.343
DB	1
Prod_Type3	S0_C0_CB
X1	1
X2	0.47
S2B	2.9
e	0.35
DA	7.2
Y0	22205CE4
Z	14
ALP2	18
ALP3	18
ALP3	0
D_a_max	46
D_a_min	45
Y01	22205CE4
ALPHA	0.23
S01	39.455
e	1
KMG	2322
S0G	22
Q1	32.327
calc01	/bearingguide/html/calculation.jsp