

# FYH SA209-27F deep groove ball bearings

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Size (mm)	45x100x36
Bore Diameter (mm)	45
Outer Diameter (mm)	100
Width (mm)	36
d	45 mm
D	100 mm
B	36 mm
C	36 mm
r min.	1,5 mm
da min.	54 mm
da max	59 mm
Da min	86 mm
Da max.	91 mm
ra max.	1,5 mm
Weight	1,34 Kg
Basic dynamic load rating (C)	166 kN
Basic static load rating (C0)	195 kN
(Grease) Lubrication Speed	4000 r/min
(Oil) Lubrication Speed	5300 r/min
Calculation factor (e)	0,34
Calculation factor (Y0)	1,9
Calculation factor (Y2)	2,9
Inventory	0.0

Manufacturer Name	NSK
Minimum Buy Quantity	N/A
Weight / Kilogram	1.33
EAN	0029176549076
Product Group	B04311
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	45MM Straight Bore; 100MM Outside Diameter; 36MM Width; C0-Medium Clearance; Shaft Mount; Double Row
UNSPSC	31171510
Harmonized Tariff Code	84823080
Noun	Bearing
Keyword String	Spherical
Manufacturer Item Number	22309EAE4
Weight / LBS	1.33
Width	1.417 Inch   36 Millimeter
Bore	1.772 Inch   45 Millimeter
Outside Diameter	3.937 Inch   100 Millimeter
Adapter Part Number	Not Applicable Inch   Not Applicable Millimeter

bore diameter:	45 mm
maximum rpm:	5600 RPM
outside diameter:	100 mm
operating temperature range:	Maximum of +200 °C
overall width:	36 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:	RBEC 1 (ISO Class Normal)
closure type:	Open
finish/coating:	Uncoated
lubrication hole type:	Lubrication Groove & Hole
outer ring width:	36 mm
dynamic load capacity:	207000 N
fillet radius:	1.5 mm
static load capacity:	195000 N
series:	223
Y3	2
hidYobi	22309EAE4
LangID	1
Y1	2
D_	100
Y2	2.9
Macha rpm	8000
B_	36
da min	54

hidTable	ecat_NSSPHR
Oil rpm	5600
Y0	1.9
mass	1.34
GRS rpm	4500
ra	1.5
TSR rpm	5000
C0	195
DE_	89.702
X0	1
Prod_Type3	SRB_CTB_CB
X1	1
X2	0.67
SIR	14
e	0.34
DA_	14
bomp	22309EAE4
Z_	15
ALP2	50
ALP1	12
ALP3	0
D_a max	91
D_a min	86
yobi	22309EAE4
HPS	HPS
ALPHA_	0.224
SDM_	76.052
r	1.5
KBRG	2328

SBRG	23
DI_	62.401