

# 1220 SKF Mass bearing 3.7 kg 100x180x34mm Self aligning ball bearings

Bearing number	1220
Size (mm)	100x180x34
Brand	SKF
Bore Diameter (mm)	100
Outer Diameter (mm)	180
Width (mm)	34
d	100 mm
D	180 mm
B	34 mm
C	34 mm
d2	127 mm
r1 min.	2.1 mm
r2 min.	2.1 mm
D1	159 mm
da min.	112 mm
Da max.	168 mm
ra max.	2 mm
Weight	3.7 Kg
Basic dynamic load rating (C)	68.9 kN
Basic static load rating (C0)	30 kN
Fatigue load limit (Pu)	1.29
Reference speed	7500 r/min
Limiting speed	4800 r/min
Calculation factor (e)	0.17

Calculation factor (kr)	0.04
Calculation factor (Y0)	4
Calculation factor (Y1)	3.7
Category	Self Aligning Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	3.814
EAN	7316576605475
Product Group – BDI	B00152
Mounting Method	Shaft
Enclosure	Open
Rolling Element	Ball Bearing
Cage Material	Steel
Precision Class	ABEC 1   ISO P0
Internal Clearance	C0-Medium
Number of Rows of Balls	Double Row
Other Features	Allowable Misalignment 3 Deg
Long Description	100MM Bore; Shaft Mount; 180MM Outside Diameter; 34MM Inner Race Width; 34MM Outer Race Width; Open; Steel Cage; Double Row of Balls; ABEC 1   ISO P0; C0-Medium
Inch – Metric	Metric
Category – BDI	Self Aligning Ball Bearings
UNSPSC	31171532
Harmonized Tariff Code	8482.10.50.68
Noun	Bearing
Keyword String	Self Aligning

Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	1220
Weight / LBS	8.4
Bore	3.937 Inch   100 Millimeter
Inner Race Width	1.339 Inch   34 Millimeter
Outer Race Width	1.339 Inch   34 Millimeter
Outside Diameter	7.087 Inch   180 Millimeter
bore diameter:	100 mm
precision rating:	Not Rated
outside diameter:	180 mm
maximum rpm:	4800 RPM
overall width:	34 mm
cage material:	Steel
bore type:	Straight
finish/coating:	Uncoated
closure type:	Open
outer ring width:	34 mm
internal clearance:	C0
fillet radius:	2 mm
dynamic load capacity:	68.9 kN
series:	1200
static load capacity:	30 kN
$d_1 \approx$	127 mm
$D_1 \approx$	155.8 mm
$r_{1,2} \text{ min.}$	2.1 mm
$d_a \text{ min.}$	112 mm
$D_a \text{ max.}$	168 mm
$r_a \text{ max.}$	2 mm

Basic dynamic load rating C	68.9 kN
Basic static load rating $C_0$	30 kN
Fatigue load limit $P_u$	1.29 kN
Permissible angular misalignment $\alpha$	2.5 °
Calculation factor $k_r$	0.04
Calculation factor e	0.17
Calculation factor $Y_0$	4
Calculation factor $Y_1$	3.7
Calculation factor $Y_2$	5.7
Mass bearing	3.7 kg