

# 1320 SKF 215x100x47mm

## Calculation factor e 0.23

### Self aligning ball bearings

Bearing number	1320
Size (mm)	215x100x47
Brand	SKF
Bore Diameter (mm)	215
Outer Diameter (mm)	100
Width (mm)	47
d	100 mm
D	215 mm
B	47 mm
$d_1$	136 mm
$D_1$	181.9 mm
$C_1$	2.469 mm
$r_{1,2} - \text{min.}$	3 mm
$d_a - \text{min.}$	114 mm
$D_a - \text{max.}$	201 mm
$r_a - \text{max.}$	3 mm
Basic dynamic load rating – C	143 kN
Basic static load rating – $C_0$	57 kN
Fatigue load limit – $P_u$	2.4 kN
Reference speed	6000 r/min
Limiting speed	4000 r/min
Calculation factor – $k_r$	0.045

Calculation factor – e	0.23
Calculation factor – Y <sub>0</sub>	2.8
Calculation factor – Y <sub>1</sub>	2.7
Calculation factor – Y <sub>2</sub>	4.2
Category	Self Aligning Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	8.434
EAN	7316576605673
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; 215MM Outside Diameter; 47MM Inner Race Width; 47MM 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	1320
Weight / LBS	18.576
Inner Race Width	1.85 Inch   47 Millimeter
Outer Race Width	1.85 Inch   47 Millimeter
Outside Diameter	8.465 Inch   215 Millimeter
Bore	3.937 Inch   100 Millimeter
bore diameter:	100 mm
precision rating:	Not Rated
outside diameter:	215 mm
maximum rpm:	4000 RPM
overall width:	47 mm
cage material:	Steel
bore type:	Straight
finish/coating:	Uncoated
closure type:	Open
outer ring width:	47 mm
internal clearance:	C0
fillet radius:	3 mm
dynamic load capacity:	143 kN
series:	1300
static load capacity:	57 kN
$d_1 \approx$	136 mm
$D_1 \approx$	181.9 mm
$C_1$	2.469 mm
$r_{1,2} \text{ min.}$	3 mm

$d_a$ min.	114 mm
$D_a$ max.	201 mm
$r_a$ max.	3 mm
Basic dynamic load rating C	143 kN
Basic static load rating $C_0$	57 kN
Fatigue load limit $P_u$	2.36 kN
Permissible angular misalignment $\alpha$	3 °
Calculation factor $k_r$	0.045
Calculation factor e	0.23
Calculation factor $Y_0$	2.8
Calculation factor $Y_1$	2.7
Calculation factor $Y_2$	4.2
Mass bearing	8.3 kg