

# 1319 SKF Calculation factor e 0.23 200x95x45mm Self aligning ball bearings

Bearing number	1319
Size (mm)	200x95x45
Brand	SKF
Bore Diameter (mm)	200
Outer Diameter (mm)	95
Width (mm)	45
d	95 mm
D	200 mm
B	45 mm
$d_1$	127.6 mm
$D_1$	170.5 mm
$C_1$	1.486 mm
$r_{1,2} - \text{min.}$	3 mm
$d_a - \text{min.}$	109 mm
$D_a - \text{max.}$	186 mm
$r_a - \text{max.}$	3 mm
Basic dynamic load rating – C	133 kN
Basic static load rating – $C_0$	51 kN
Fatigue load limit – $P_u$	2.2 kN
Reference speed	6300 r/min
Limiting speed	4300 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	6.808
EAN	7316576605666
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	95MM Bore; Shaft Mount; 200MM Outside Diameter; 45MM Inner Race Width; 45MM 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	1319
Weight / LBS	14.996
Bore	3.74 Inch   95 Millimeter
Outside Diameter	7.874 Inch   200 Millimeter
Inner Race Width	1.772 Inch   45 Millimeter
Outer Race Width	1.772 Inch   45 Millimeter
bore diameter:	95 mm
precision rating:	Not Rated
outside diameter:	200 mm
maximum rpm:	4300 RPM
overall width:	45 mm
cage material:	Steel
bore type:	Straight
finish/coating:	Uncoated
closure type:	Open
outer ring width:	45 mm
internal clearance:	C0
fillet radius:	3 mm
dynamic load capacity:	133 kN
series:	1300
static load capacity:	51 kN
$d_1 \approx$	127.6 mm
$D_1 \approx$	170.5 mm
$C_1$	1.486 mm
$r_{1,2} \text{ min.}$	3 mm

$d_a$ min.	109 mm
$D_a$ max.	186 mm
$r_a$ max.	3 mm
Basic dynamic load rating C	133 kN
Basic static load rating $C_0$	51 kN
Fatigue load limit $P_u$	2.16 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	6.7 kg