

# 2315 SKF internal clearance: C0 160x75x55mm Self aligning ball bearings

Bearing number	2315
Size (mm)	160x75x55
Brand	SKF
Bore Diameter (mm)	160
Outer Diameter (mm)	75
Width (mm)	55
d	75 mm
D	160 mm
B	55 mm
$d_1$	97.8 mm
$D_1$	136.4 mm
$r_{1,2} - \text{min.}$	2.1 mm
$d_a - \text{min.}$	87 mm
$D_a - \text{max.}$	148 mm
$r_a - \text{max.}$	2 mm
Basic dynamic load rating – C	124 kN
Basic static load rating – $C_0$	43 kN
Fatigue load limit – $P_u$	2 kN
Reference speed	7500 r/min
Limiting speed	5600 r/min
Calculation factor – $k_r$	0.05
Calculation factor – e	0.37

Calculation factor – Y <sub>0</sub>	1.8
Calculation factor – Y <sub>1</sub>	1.7
Calculation factor – Y <sub>2</sub>	2.6
Category	Self Aligning Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	4.94
EAN	7316577002129
Product Group – BDI	B04311
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	75MM Bore; Shaft Mount; 160MM Outside Diameter; 55MM Inner Race Width; 55MM 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	2315
Weight / LBS	10.88
Outside Diameter	6.299 Inch   160 Millimeter
Bore	2.953 Inch   75 Millimeter
Outer Race Width	2.165 Inch   55 Millimeter
Inner Race Width	2.165 Inch   55 Millimeter
bore diameter:	75 mm
precision rating:	Not Rated
outside diameter:	160 mm
maximum rpm:	5600 RPM
overall width:	55 mm
cage material:	Steel
bore type:	Straight
finish/coating:	Uncoated
closure type:	Open
outer ring width:	55 mm
internal clearance:	C0
fillet radius:	2 mm
dynamic load capacity:	124 kN
series:	2300
static load capacity:	43 kN
$d_1 \approx$	97.8 mm
$D_1 \approx$	136.4 mm
$r_{1,2} \text{ min.}$	2.1 mm
$d_a \text{ min.}$	87 mm
$D_a \text{ max.}$	148 mm

$r_a$ max.	2 mm
Basic dynamic load rating C	124 kN
Basic static load rating $C_0$	43 kN
Fatigue load limit $P_u$	2.04 kN
Permissible angular misalignment $\alpha$	3 °
Calculation factor $k_r$	0.05
Calculation factor e	0.37
Calculation factor $Y_0$	1.8
Calculation factor $Y_1$	1.7
Calculation factor $Y_2$	2.6
Mass bearing	4.7 kg