

# 1316 SKF Weight / LBS 9.279

## 170x80x39mm Self aligning ball bearings

Bearing number	1316
Size (mm)	170x80x39
Brand	SKF
Bore Diameter (mm)	170
Outer Diameter (mm)	80
Width (mm)	39
d	80 mm
D	170 mm
B	39 mm
$d_1$	110 mm
$D_1$	144.4 mm
$r_{1,2} - \text{min.}$	2.1 mm
$d_a - \text{min.}$	92 mm
$D_a - \text{max.}$	158 mm
$r_a - \text{max.}$	2 mm
Basic dynamic load rating – C	88.4 kN
Basic static load rating – $C_0$	33.5 kN
Fatigue load limit – $P_u$	1.5 kN
Reference speed	7500 r/min
Limiting speed	5300 r/min
Calculation factor – $k_r$	0.045
Calculation factor – e	0.22

Calculation factor – $Y_0$	2.8
Calculation factor – $Y_1$	2.9
Calculation factor – $Y_2$	4.5
Category	Self Aligning Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	4.213
EAN	7316576605550
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	80MM Bore; Shaft Mount; 170MM Outside Diameter; 39MM Inner Race Width; 39MM 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	1316
Weight / LBS	9.279
Inner Race Width	1.535 Inch   39 Millimeter
Outside Diameter	6.693 Inch   170 Millimeter
Bore	3.15 Inch   80 Millimeter
Outer Race Width	1.535 Inch   39 Millimeter
bore diameter:	80 mm
precision rating:	Not Rated
outside diameter:	170 mm
maximum rpm:	5300 RPM
overall width:	39 mm
cage material:	Steel
bore type:	Straight
finish/coating:	Uncoated
closure type:	Open
outer ring width:	39 mm
internal clearance:	C0
fillet radius:	2 mm
dynamic load capacity:	88.4 kN
series:	1300
static load capacity:	33.5 kN
$d_1 \approx$	110 mm
$D_1 \approx$	144.4 mm
$r_{1,2} \text{ min.}$	2.1 mm
$d_a \text{ min.}$	92 mm
$D_a \text{ max.}$	158 mm

$r_a$ max.	2 mm
Basic dynamic load rating C	88.4 kN
Basic static load rating $C_0$	33.5 kN
Fatigue load limit $P_u$	1.5 kN
Permissible angular misalignment $\alpha$	3 °
Calculation factor $k_r$	0.045
Calculation factor e	0.22
Calculation factor $Y_0$	2.8
Calculation factor $Y_1$	2.9
Calculation factor $Y_2$	4.5
Mass bearing	4.2 kg