

# 1317 SKF 180x85x41mm outside diameter: 180 mm Self aligning ball bearings

Bearing number	1317
Size (mm)	180x85x41
Brand	SKF
Bore Diameter (mm)	180
Outer Diameter (mm)	85
Width (mm)	41
d	85 mm
D	180 mm
B	41 mm
d <sub>1</sub>	117.6 mm
D <sub>1</sub>	152.8 mm
r <sub>1,2</sub> – min.	3 mm
d <sub>a</sub> – min.	99 mm
D <sub>a</sub> – max.	166 mm
r <sub>a</sub> – max.	3 mm
Basic dynamic load rating – C	97.5 kN
Basic static load rating – C <sub>0</sub>	38 kN
Fatigue load limit – P <sub>u</sub>	1.7 kN
Reference speed	7000 r/min
Limiting speed	4800 r/min
Calculation factor – k <sub>r</sub>	0.045
Calculation factor – e	0.22

Calculation factor – Y <sub>0</sub>	2.8
Calculation factor – Y <sub>1</sub>	2.9
Calculation factor – Y <sub>2</sub>	4.5
Category	Self Aligning Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	5.037
EAN	7316576605581
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	85MM Bore; Shaft Mount; 180MM Outside Diameter; 41MM Inner Race Width; 41MM 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	1317
Weight / LBS	11.094
Bore	3.346 Inch   85 Millimeter
Outer Race Width	1.614 Inch   41 Millimeter
Inner Race Width	1.614 Inch   41 Millimeter
Outside Diameter	7.087 Inch   180 Millimeter
bore diameter:	85 mm
precision rating:	Not Rated
outside diameter:	180 mm
maximum rpm:	4800 RPM
overall width:	41 mm
cage material:	Steel
bore type:	Straight
finish/coating:	Uncoated
closure type:	Open
outer ring width:	41 mm
internal clearance:	C0
fillet radius:	3 mm
dynamic load capacity:	97.5 kN
series:	1300
static load capacity:	38 kN
$d_1 \approx$	117.6 mm
$D_1 \approx$	152.8 mm
$r_{1,2} \text{ min.}$	3 mm
$d_a \text{ min.}$	99 mm
$D_a \text{ max.}$	166 mm

$r_a$ max.	3 mm
Basic dynamic load rating C	97.5 kN
Basic static load rating $C_0$	38 kN
Fatigue load limit $P_u$	1.7 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	5 kg