

# 2313 SKF 140x65x48mm bore diameter: 65 mm Self aligning ball bearings

Bearing number	2313
Size (mm)	140x65x48
Brand	SKF
Bore Diameter (mm)	140
Outer Diameter (mm)	65
Width (mm)	48
d	65 mm
D	140 mm
B	48 mm
d <sub>1</sub>	86 mm
D <sub>1</sub>	119.1 mm
r <sub>1,2</sub> – min.	2.1 mm
d <sub>a</sub> – min.	77 mm
D <sub>a</sub> – max.	128 mm
r <sub>a</sub> – max.	2 mm
Basic dynamic load rating – C	95.6 kN
Basic static load rating – C <sub>0</sub>	32.5 kN
Fatigue load limit – P <sub>u</sub>	1.7 kN
Reference speed	9000 r/min
Limiting speed	6300 r/min
Calculation factor – k <sub>r</sub>	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
Category	Self Aligning Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	3.284
EAN	7316576605284
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	65MM Bore; Shaft Mount; 140MM Outside Diameter; 48MM Inner Race Width; 48MM 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	2313
Weight / LBS	7.233
Inner Race Width	1.89 Inch   48 Millimeter
Bore	2.559 Inch   65 Millimeter
Outer Race Width	1.89 Inch   48 Millimeter
Outside Diameter	5.512 Inch   140 Millimeter
bore diameter:	65 mm
static load capacity:	32.5 kN
outside diameter:	140 mm
precision rating:	Not Rated
overall width:	48 mm
maximum rpm:	6300 RPM
bore type:	Straight
finish/coating:	Uncoated
closure type:	Open
outer ring width:	48 mm
internal clearance:	C0
fillet radius:	2 mm
dynamic load capacity:	95.6 kN
series:	2300
$d_1 \approx$	86 mm
$D_1 \approx$	119.1 mm
$r_{1,2} \text{ min.}$	2.1 mm
$d_a \text{ min.}$	77 mm
$D_a \text{ max.}$	128 mm
$r_a \text{ max.}$	2 mm

Basic dynamic load rating C	95.6 kN
Basic static load rating $C_0$	32.5 kN
Fatigue load limit $P_u$	1.66 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	3.25 kg