

2217 SKF Calculation factor Y1 2.5 150x85x36mm Self aligning ball bearings

Bearing number	2217
Size (mm)	150x85x36
Brand	SKF
Bore Diameter (mm)	150
Outer Diameter (mm)	85
Width (mm)	36
d	85 mm
D	150 mm
B	36 mm
d_1	106 mm
D_1	130.7 mm
$r_{1,2} - \text{min.}$	2 mm
$d_a - \text{min.}$	96 mm
$D_a - \text{max.}$	139 mm
$r_a - \text{max.}$	2 mm
Basic dynamic load rating – C	58.5 kN
Basic static load rating – C_0	23.6 kN
Fatigue load limit – P_u	1.1 kN
Reference speed	8000 r/min
Limiting speed	5600 r/min
Calculation factor – k_r	0.04
Calculation factor – e	0.25

Calculation factor – Y ₀	2.5
Calculation factor – Y ₁	2.5
Calculation factor – Y ₂	3.9
Category	Self Aligning Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	2.586
EAN	7316576608643
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; 150MM Outside Diameter; 36MM Inner Race Width; 36MM 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	http://www.skf.com
Manufacturer Item Number	2217
Weight / LBS	5.697
Outside Diameter	5.906 Inch 150 Millimeter
Inner Race Width	1.417 Inch 36 Millimeter
Bore	3.346 Inch 85 Millimeter
Outer Race Width	1.417 Inch 36 Millimeter
bore diameter:	85 mm
precision rating:	Not Rated
outside diameter:	150 mm
maximum rpm:	5600 RPM
overall width:	36 mm
cage material:	Steel
bore type:	Straight
finish/coating:	Uncoated
closure type:	Open
outer ring width:	36 mm
internal clearance:	C0
fillet radius:	2 mm
dynamic load capacity:	58.5 kN
series:	2200
static load capacity:	23.6 kN
$d_1 \approx$	106 mm
$D_1 \approx$	130.7 mm
$r_{1,2} \text{ min.}$	2 mm
$d_a \text{ min.}$	96 mm
$D_a \text{ max.}$	139 mm

r_a max.	2 mm
Basic dynamic load rating C	58.5 kN
Basic static load rating C_0	23.6 kN
Fatigue load limit P_u	1.12 kN
Permissible angular misalignment α	2.5 °
Calculation factor k_r	0.04
Calculation factor e	0.25
Calculation factor Y_0	2.5
Calculation factor Y_1	2.5
Calculation factor Y_2	3.9
Mass bearing	2.5 kg