

# 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 <sub>0</sub>	2.5
Calculation factor – Y <sub>1</sub>	2.5
Calculation factor – Y <sub>2</sub>	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	<a href="http://www.skf.com">http://www.skf.com</a>
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 $\alpha$	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