

2306 SKF Calculation factor Y1 1.4 30x72x27mm Self aligning ball bearings

Bearing number	2306
Size (mm)	30x72x27
Brand	SKF
Bore Diameter (mm)	30
Outer Diameter (mm)	72
Width (mm)	27
d	30 mm
D	72 mm
B	27 mm
C	27 mm
d2	41.7 mm
r1 min.	1.1 mm
r2 min.	1.1 mm
D1	60.9 mm
da min.	37 mm
Da max.	65 mm
ra max.	1.1 mm
Weight	0.5 Kg
Basic dynamic load rating (C)	31.2 kN
Basic static load rating (C0)	8.8 kN
Fatigue load limit (Pu)	0.45
Reference speed	18000 r/min
Limiting speed	13000 r/min
Calculation factor (e)	0.44

Calculation factor (kr)	0.05
Calculation factor (Y0)	1.4
Calculation factor (Y1)	1.4
Category	Self Aligning Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.519
EAN	7316576608728
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	30MM Bore; Shaft Mount; 72MM Outside Diameter; 27MM Inner Race Width; 27MM 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	2306
Weight / LBS	1.144
Outside Diameter	2.835 Inch 72 Millimeter
Outer Race Width	1.063 Inch 27 Millimeter
Bore	1.181 Inch 30 Millimeter
Inner Race Width	1.063 Inch 27 Millimeter
bore diameter:	30 mm
static load capacity:	8.8 kN
outside diameter:	72 mm
precision rating:	Not Rated
overall width:	27 mm
maximum rpm:	13000 RPM
bore type:	Straight
finish/coating:	Uncoated
closure type:	Open
outer ring width:	27 mm
internal clearance:	C0
fillet radius:	1.1 mm
dynamic load capacity:	31.2 kN
series:	2300
$d_1 \approx$	41.9 mm
$D_1 \approx$	59.8 mm
$r_{1,2} \text{ min.}$	1.1 mm
$d_a \text{ min.}$	37 mm
$D_a \text{ max.}$	65 mm
$r_a \text{ max.}$	1.1 mm
Basic dynamic load rating C	31.2 kN

Basic static load rating C_0	8.8 kN
Fatigue load limit P_u	0.45 kN
Permissible angular misalignment α	3 °
Calculation factor k_r	0.05
Calculation factor e	0.44
Calculation factor Y_0	1.4
Calculation factor Y_1	1.4
Calculation factor Y_2	2.2
Mass bearing	0.5 kg