

16040 SKF Calculation factor – k_r 0.02 310x200x34mm Deep groove ball bearings

Bearing number	16040
Size (mm)	310x200x34
Brand	SKF
Bore Diameter (mm)	310
Outer Diameter (mm)	200
Width (mm)	34
d	200 mm
D	310 mm
B	34 mm
d_1	237.2 mm
D_1	272.05 mm
$r_{1,2}$ – min.	2 mm
d_a – min.	209 mm
D_a – max.	301 mm
r_a – max.	2 mm
Basic dynamic load rating – C	168 kN
Basic static load rating – C_0	190 kN
Fatigue load limit – P_u	5.1 kN
Reference speed	4300 r/min
Limiting speed	2800 r/min
Calculation factor – k_r	0.02
Calculation factor – f_0	16.3

Category	Single Row Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	8.954
EAN	7316577004703
Product Group – BDI	B00308
Enclosure	Open
Precision Class	ABEC 1 ISO P0
Maximum Capacity / Filling Slot	No
Rolling Element	Ball Bearing
Snap Ring	No
Internal Special Features	No
Cage Material	Steel
Internal Clearance	C0-Medium
Inch – Metric	Metric
Long Description	200MM Bore; 310MM Outside Diameter; 34MM Outer Race Diameter; Open; Ball Bearing; ABEC 1 ISO P0; No Filling Slot; No Snap Ring; No Internal Special Features
Category – BDI	Single Row Ball Bearing
UNSPSC	31171504
Harmonized Tariff Code	8482.10.50.68
Noun	Bearing
Keyword String	Ball
Manufacturer URL	http://www.skf.com
Manufacturer Item Number	16040
Weight / LBS	19.723

Outer Race Width	1.339 Inch 34 Millimeter
Outside Diameter	12.205 Inch 310 Millimeter
Bore	7.874 Inch 200 Millimeter
bore diameter:	200 mm
static load capacity:	190 kN
outside diameter:	310 mm
precision rating:	Not Rated
overall width:	34 mm
finish/coating:	Uncoated
bore type:	Round
cage material:	Steel
closure type:	Open
outer ring width:	34 mm
row type & fill slot:	Single Row Non-Fill Slot
fillet radius:	2 mm
snap ring included:	Without Snap Ring
maximum rpm:	2800 RPM
internal clearance:	C0
series:	16
dynamic load capacity:	168 kN
$d_1 \approx$	237.2 mm
$D_1 \approx$	272.05 mm
$r_{1,2} \text{ min.}$	2 mm
$d_a \text{ min.}$	209 mm
$D_a \text{ max.}$	301 mm
$r_a \text{ max.}$	2 mm
Basic dynamic load rating C	168 kN
Basic static load rating C_0	190 kN

Fatigue load limit P_u	5.1 kN
Calculation factor k_r	0.02
Calculation factor f_θ	16.3
Mass bearing	8.78 kg