

16003-2Z SKF series: 16 35x17x8mm Deep groove ball bearings

Bearing number	16003-2Z
Size (mm)	35x17x8
Brand	SKF
Bore Diameter (mm)	35
Outer Diameter (mm)	17
Width (mm)	8
d	17 mm
D	35 mm
B	8 mm
d ₁	23 mm
D ₂	31.2 mm
r _{1,2} – min.	0.3 mm
d _a – min.	19 mm
d _a – max.	22.6 mm
D _a – max.	33 mm
r _a – max.	0.3 mm
Basic dynamic load rating – C	6.4 kN
Basic static load rating – C ₀	3.2 kN
Fatigue load limit – P _u	0.137 kN
Reference speed	45000 r/min
Limiting speed	22000 r/min
Calculation factor – k _r	0.02

Calculation factor – f_0	14
Category	Single Row Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.036
EAN	7316570104837
Product Group – BDI	B00308
Enclosure	2 Metal Shields
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	17MM Bore; 35MM Outside Diameter; 8MM Outer Race Diameter; 2 Metal Shields; 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	16003-2Z
Weight / LBS	0.077
Outside Diameter	1.378 Inch 35 Millimeter
Outer Race Width	0.315 Inch 8 Millimeter
Bore	0.669 Inch 17 Millimeter
bore diameter:	17 mm
static load capacity:	3.25 kN
outside diameter:	35 mm
precision rating:	Not Rated
overall width:	8 mm
finish/coating:	Uncoated
bore type:	Round
cage material:	Steel
closure type:	Double Shielded
outer ring width:	8 mm
row type & fill slot:	Single Row Non-Fill Slot
fillet radius:	0.3 mm
internal clearance:	C0
maximum rpm:	22000 RPM
dynamic load capacity:	6.37 kN
series:	16
$d_1 \approx$	23 mm
$D_2 \approx$	31.2 mm
$r_{1,2} \text{ min.}$	0.3 mm
$d_a \text{ min.}$	19 mm
$d_a \text{ max.}$	22.6 mm
$D_a \text{ max.}$	33 mm
$r_a \text{ max.}$	0.3 mm

Basic dynamic load rating C	6.37 kN
Basic static load rating C_0	3.25 kN
Fatigue load limit P_u	0.137 kN
Calculation factor k_r	0.02
Calculation factor f_0	14
Mass bearing	0.032 kg