

# 16003 SKF Mass bearing 0.031 kg 35x17x8mm Deep groove ball bearings

Bearing number	16003
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 <sub>1</sub>	23 mm
D <sub>2</sub>	31.2 mm
r <sub>1,2</sub> – min.	0.3 mm
d <sub>a</sub> – min.	19 mm
D <sub>a</sub> – max.	33 mm
r <sub>a</sub> – max.	0.3 mm
Basic dynamic load rating – C	6.4 kN
Basic static load rating – C <sub>0</sub>	3.2 kN
Fatigue load limit – P <sub>u</sub>	0.137 kN
Reference speed	45000 r/min
Limiting speed	28000 r/min
Calculation factor – k <sub>r</sub>	0.02
Calculation factor – f <sub>0</sub>	14

Category	Single Row Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.033
EAN	7316577080387
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	17MM Bore; 35MM Outside Diameter; 8MM 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	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	16003
Weight / LBS	0.073

Outer Race Width	0.315 Inch   8 Millimeter
Bore	0.669 Inch   17 Millimeter
Outside Diameter	1.378 Inch   35 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:	Open
outer ring width:	8 mm
row type & fill slot:	Single Row Non-Fill Slot
fillet radius:	0.3 mm
snap ring included:	Without Snap Ring
maximum rpm:	28000 RPM
internal clearance:	C0
series:	16
dynamic load capacity:	6.37 kN
$d_1 \approx$	23 mm
$D_2 \approx$	31.2 mm
$r_{1,2} \text{ min.}$	0.3 mm
$d_a \text{ min.}$	19 mm
$D_a \text{ max.}$	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 $f_\theta$	14
Mass bearing	0.031 kg