

# 16021 SKF Fatigue load limit Pu 1.86 kN 160x105x18mm Deep groove ball bearings

Bearing number	16021
Size (mm)	160x105x18
Brand	SKF
Bore Diameter (mm)	160
Outer Diameter (mm)	105
Width (mm)	18
d	105 mm
D	160 mm
B	18 mm
d <sub>1</sub>	123 mm
D <sub>1</sub>	141.95 mm
r <sub>1,2</sub> – min.	1 mm
d <sub>a</sub> – min.	110 mm
D <sub>a</sub> – max.	155 mm
r <sub>a</sub> – max.	1 mm
Basic dynamic load rating – C	54 kN
Basic static load rating – C <sub>0</sub>	51 kN
Fatigue load limit – P <sub>u</sub>	1.9 kN
Reference speed	8500 r/min
Limiting speed	5300 r/min
Calculation factor – k <sub>r</sub>	0.02
Calculation factor – f <sub>0</sub>	16.3

Category	Single Row Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	1.225
EAN	7316577016003
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	105MM Bore; 160MM Outside Diameter; 18MM 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	16021
Weight / LBS	2.698

Bore	4.134 Inch   105 Millimeter
Outer Race Width	0.709 Inch   18 Millimeter
Outside Diameter	6.299 Inch   160 Millimeter
bore diameter:	105 mm
static load capacity:	51 kN
outside diameter:	160 mm
precision rating:	Not Rated
overall width:	18 mm
finish/coating:	Uncoated
bore type:	Round
cage material:	Steel
closure type:	Open
outer ring width:	18 mm
row type & fill slot:	Single Row Non-Fill Slot
fillet radius:	1 mm
snap ring included:	Without Snap Ring
maximum rpm:	5300 RPM
internal clearance:	C0
series:	16
dynamic load capacity:	54 kN
$d_1 \approx$	123 mm
$D_1 \approx$	141.95 mm
$r_{1,2} \text{ min.}$	1 mm
$d_a \text{ min.}$	110 mm
$D_a \text{ max.}$	155 mm
$r_a \text{ max.}$	1 mm
Basic dynamic load rating C	54 kN
Basic static load rating $C_0$	51 kN

Fatigue load limit $P_u$	1.86 kN
Calculation factor $k_r$	0.02
Calculation factor $f_\theta$	16.3
Mass bearing	1.19 kg