

# 16036 SKF 280x180x31mm overall width: 31 mm Deep groove ball bearings

Bearing number	16036
Size (mm)	280x180x31
Brand	SKF
Bore Diameter (mm)	280
Outer Diameter (mm)	180
Width (mm)	31
d	180 mm
D	280 mm
B	31 mm
d <sub>1</sub>	213.5 mm
D <sub>1</sub>	245.8 mm
r <sub>1,2</sub> – min.	2 mm
d <sub>a</sub> – min.	189 mm
D <sub>a</sub> – max.	271 mm
r <sub>a</sub> – max.	2 mm
Basic dynamic load rating – C	138 kN
Basic static load rating – C <sub>0</sub>	146 kN
Fatigue load limit – P <sub>u</sub>	4.2 kN
Reference speed	4800 r/min
Limiting speed	3000 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	6.506
EAN	7316577004680
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	180MM Bore; 280MM Outside Diameter; 31MM 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	16036
Weight / LBS	14.331

Outer Race Width	1.22 Inch   31 Millimeter
Bore	7.087 Inch   180 Millimeter
Outside Diameter	11.024 Inch   280 Millimeter
bore diameter:	180 mm
static load capacity:	146 kN
outside diameter:	280 mm
precision rating:	Not Rated
overall width:	31 mm
finish/coating:	Uncoated
bore type:	Round
cage material:	Steel
closure type:	Open
outer ring width:	31 mm
row type & fill slot:	Single Row Non-Fill Slot
fillet radius:	2 mm
snap ring included:	Without Snap Ring
maximum rpm:	3000 RPM
internal clearance:	C0
series:	16
dynamic load capacity:	138 kN
$d_1 \approx$	213.5 mm
$D_1 \approx$	245.8 mm
$r_{1,2} \text{ min.}$	2 mm
$d_a \text{ min.}$	189 mm
$D_a \text{ max.}$	271 mm
$r_a \text{ max.}$	2 mm
Basic dynamic load rating C	138 kN
Basic static load rating $C_0$	146 kN

Fatigue load limit $P_u$	4.15 kN
Calculation factor $k_r$	0.02
Calculation factor $f_\theta$	16.3
Mass bearing	6.51 kg