

# 16018 SKF overall width: 16 mm 140x90x16mm Deep groove ball bearings

Bearing number	16018
Size (mm)	140x90x16
Brand	SKF
Bore Diameter (mm)	140
Outer Diameter (mm)	90
Width (mm)	16
d	90 mm
D	140 mm
B	16 mm
$d_1$	106.7 mm
$D_1$	123.2 mm
$r_{1,2} - \text{min.}$	1 mm
$d_a - \text{min.}$	94.6 mm
$D_a - \text{max.}$	135 mm
$r_a - \text{max.}$	1 mm
Basic dynamic load rating – C	43.6 kN
Basic static load rating – $C_0$	39 kN
Fatigue load limit – $P_u$	1.6 kN
Reference speed	10000 r/min
Limiting speed	6300 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	0.882
EAN	7316577015976
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	90MM Bore; 140MM Outside Diameter; 16MM 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	16018
Weight / LBS	1.942

Outer Race Width	0.63 Inch   16 Millimeter
Outside Diameter	5.512 Inch   140 Millimeter
Bore	3.543 Inch   90 Millimeter
bore diameter:	90 mm
static load capacity:	39 kN
outside diameter:	140 mm
precision rating:	Not Rated
overall width:	16 mm
finish/coating:	Uncoated
bore type:	Round
cage material:	Steel
closure type:	Open
outer ring width:	16 mm
row type & fill slot:	Single Row Non-Fill Slot
fillet radius:	1 mm
snap ring included:	Without Snap Ring
maximum rpm:	6300 RPM
internal clearance:	C0
series:	16
dynamic load capacity:	43.6 kN
$d_1 \approx$	106.7 mm
$D_1 \approx$	123.2 mm
$r_{1,2} \text{ min.}$	1 mm
$d_a \text{ min.}$	94.6 mm
$D_a \text{ max.}$	135 mm
$r_a \text{ max.}$	1 mm
Basic dynamic load rating C	43.6 kN
Basic static load rating $C_0$	39 kN

Fatigue load limit $P_u$	1.56 kN
Calculation factor $k_r$	0.02
Calculation factor $f_\theta$	16.3
Mass bearing	0.85 kg