

# 16009 SKF finish/coating: Uncoated 75x45x10mm Deep groove ball bearings

Bearing number	16009
Size (mm)	75x45x10
Brand	SKF
Bore Diameter (mm)	75
Outer Diameter (mm)	45
Width (mm)	10
d	45 mm
D	75 mm
B	10 mm
d <sub>1</sub>	55 mm
D <sub>1</sub>	65 mm
r <sub>1,2</sub> – min.	
d <sub>a</sub> – min.	48.2 mm
D <sub>a</sub> – max.	71.8 mm
r <sub>a</sub> – max.	0.6 mm
Basic dynamic load rating – C	16.5 kN
Basic static load rating – C <sub>0</sub>	10.8 kN
Fatigue load limit – P <sub>u</sub>	0.52 kN
Reference speed	20000 r/min
Limiting speed	12000 r/min
Calculation factor – k <sub>r</sub>	0.02
Calculation factor – f <sub>0</sub>	14.2

Category	Single Row Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.181
EAN	7316577015853
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	45MM Bore; 75MM Outside Diameter; 10MM 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	16009
Weight / LBS	0.399

Outside Diameter	2.953 Inch   75 Millimeter
Bore	1.772 Inch   45 Millimeter
Outer Race Width	0.394 Inch   10 Millimeter
bore diameter:	45 mm
static load capacity:	10.8 kN
outside diameter:	75 mm
precision rating:	Not Rated
overall width:	10 mm
finish/coating:	Uncoated
bore type:	Round
cage material:	Steel
closure type:	Open
outer ring width:	10 mm
row type & fill slot:	Single Row Non-Fill Slot
fillet radius:	0.6 mm
snap ring included:	Without Snap Ring
maximum rpm:	12000 RPM
internal clearance:	C0
series:	16
dynamic load capacity:	16.5 kN
$d_1 \approx$	55 mm
$D_1 \approx$	65 mm
$r_{1,2} \text{ min.}$	0.6 mm
$d_a \text{ min.}$	48.2 mm
$D_a \text{ max.}$	71.8 mm
$r_a \text{ max.}$	0.6 mm
Basic dynamic load rating C	16.5 kN
Basic static load rating $C_0$	10.8 kN

Fatigue load limit $P_u$	0.52 kN
Calculation factor $k_r$	0.02
Calculation factor $f_\theta$	14.2
Mass bearing	0.17 kg