



GARLOCK BEARINGS LTD



80 mm x 200 mm x 48 mm SKF 7416 M Angular Contact Ball Bearings

Bearing No. 7416 M

7416 M Bearing 2D drawings and 3D CAD models

Category	Angular Contact Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight	8.11
Product Group	B00308
Enclosure	Open
Flush Ground	No
Rolling Element	Ball Bearing
Number of Rows of Balls	Single Row
Precision Class	ABEC 3 ISO P6
Maximum Capacity / Filling Slot	No
Snap Ring	No
Cage Material	Brass
Contact Angle	40 Degree
Internal Clearance	C0-Medium
Number of Bearings	1 (Single)
Inch - Metric	Metric
Long Description	80MM Bore; 200MM Outside Diameter; 48MM Width; Open; No Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3 ISO P6; No Filling Slot; No Snap Ring
Category	Angular Contact Ball



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	Bearing
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact
Manufacturer URL	http://www.skf.com
Manufacturer Item Number	7416 M
Weight / LBS	17.857
d	3.15 Inch 80 Millimeter
B	1.89 Inch 48 Millimeter
D	7.874 Inch 200 Millimeter
bore diameter:	80 mm
radial dynamic load capacity:	40000 lbf
outside diameter:	200 mm
maximum temperature:	250 ° F
overall width:	48 mm
cage material:	Brass Cage
contact angle:	40 °
maximum rpm:	3800 rpm
row type & fill slot:	Single-Row Non-Fill Slot
finish/coating:	Uncoated
internal clearance:	C0
precision rating:	ABEC3
bore type:	Straight
series:	7400
closure type:	Open
d	80 mm
D	200 mm
B	48 mm
d ₁	117.23 mm
D ₁	161.85 mm
a	83 mm



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$r_{1,2}$ min.	3 mm
$r_{3,4}$ min.	3 mm
d_a min.	55 mm
D_a max.	110 mm
D_b max.	179.4 mm
r_a max.	2 mm
r_b max.	2 mm
Basic dynamic load rating C	178 kN
Basic static load rating C_0	153 kN
Fatigue load limit P_u	5.5 kN
Reference speed	4000 r/min
Limiting speed	4300 r/min
Calculation factor A	0.453
Calculation factor k_r	0.1
Calculation factor e	1.14
Calculation factor X	0.35
Calculation factor Y_0	0.26
Calculation factor Y_2	0.57
Calculation factor X	0.57
Calculation factor Y_0	0.52
Calculation factor Y_1	0.55
Calculation factor Y_2	0.93
Mass bearing	8.1 kg