



7407 BM Bearing 2D drawings and 3D CAD models

35 mm x 100 mm x 25 mm SKF 7407 BM
angular contact ball bearings

Bearing No. 7407 BM

Size	100x35x25 mm
Bore Diameter	100 mm
Outer Diameter	35 mm
Width	25 mm
d	35 mm
D	100 mm
B	25 mm
d ₁	61.95 mm
d ₂	50.75 mm
D ₁	76.1 mm
a	41 mm
r _{1,2} - min.	1.5 mm
r _{3,4} - min.	1.5 mm
d _a - min.	55 mm
D _a - max.	110 mm
D _b - max.	89.4 mm
r _a - max.	2 mm
r _b - max.	2 mm
Basic dynamic load rating - C	60.5 kN
Basic static load rating - C ₀	38 kN
Fatigue load limit - P _u	1.6 kN
Reference speed	8500 r/min
Limiting speed	9000 r/min
Calculation factor - k _r	0.1



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Calculation factor - k_a	1.6
Calculation factor - e	1.14
Calculation factor - X	0.57
Calculation factor - Y_0	0.52
Calculation factor - Y_1	0.55
Calculation factor - Y_2	0.93
Calculation factor - X	0.35
Calculation factor - Y_0	0.26
Calculation factor - Y_1	
Calculation factor - Y_2	0.57
Category	Angular Contact Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	1.05
EAN	7316576651229
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	35MM Bore; 100MM



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	Outside Diameter; 25MM 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 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	7407 BM
Weight / LBS	2.321
Outside Diameter	3.937 Inch 100 Millimeter
Width	0.984 Inch 25 Millimeter
Bore	1.378 Inch 35 Millimeter
bore diameter:	35 mm
radial static load capacity:	38 kN
outside diameter:	100 mm
cage material:	Brass
overall width:	25 mm
outer ring width:	25 mm
contact angle:	40 °
maximum rpm:	9000 RPM
row type & fill slot:	Single-Row Non-Fill Slot
finish/coating:	Uncoated
internal clearance:	C0
precision rating:	ABEC 3 (ISO Class 6)
closure type:	Open
fillet radius:	1.5 mm
radial dynamic load capacity:	60.5 kN



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series:	74
d_1	61.95 mm
d_2	50.75 mm
D_1	76.1 mm
$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	1.5 mm
d_a min.	55 mm
D_a max.	110 mm
D_b max.	89.4 mm
r_a max.	2 mm
r_b max.	2 mm
Basic dynamic load rating C	60.5 kN
Basic static load rating C_0	38 kN
Fatigue load limit P_u	1.6 kN
Calculation factor A	0.0276
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	1.1 kg