



BEARING FORGE OF AMERICA CORP.



7205 bep Bearing 2D drawings and 3D CAD models

25 mm x 52 mm x 15 mm skf 7205 bep bearing

Bearing No. 7205 bep

Size	52x25x15 mm
Bore Diameter	52 mm
Outer Diameter	25 mm
Width	15 mm
d	25 mm
D	52 mm
B	15 mm
d ₁	36.1 mm
d ₂	30.87 mm
D ₁	41.57 mm
a	24 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.6 mm
d _a - min.	30.6 mm
D _a - max.	46.4 mm
D _b - max.	47.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
Basic dynamic load rating - C	14.8 kN
Basic static load rating - C ₀	9.3 kN
Fatigue load limit - P _u	0.4 kN
Reference speed	15000 r/min
Limiting speed	15000 r/min
Calculation factor - k _r	0.095
Calculation factor - k _a	1.4



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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	0.125
EAN	7316576632686
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	Polymer
Contact Angle	40 Degree
Internal Clearance	C0-Medium
Number of Bearings	1 (Single)
Inch - Metric	Metric
Long Description	25MM Bore; 52MM Outside Diameter; 15MM



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	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	7205 BEP
Weight / LBS	0.278
Outside Diameter	2.047 Inch 52 Millimeter
Bore	0.984 Inch 25 Millimeter
Width	0.591 Inch 15 Millimeter
bore diameter:	25 mm
radial static load capacity:	9.3 kN
outside diameter:	52 mm
cage material:	Nylon
overall width:	15 mm
outer ring width:	15 mm
contact angle:	40 °
maximum rpm:	15000 RPM
row type & fill slot:	Single-Row Non-Fill Slot
finish/coating:	Uncoated
internal clearance:	C0
precision rating:	Not Rated
closure type:	Open
fillet radius:	1 mm
radial dynamic load capacity:	14.8 kN
series:	72



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d_1	36.1 mm
d_2	30.87 mm
D_1	41.57 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	30.6 mm
D_a max.	46.4 mm
D_b max.	47.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
Basic dynamic load rating C	14.8 kN
Basic static load rating C_0	9.3 kN
Fatigue load limit P_u	0.4 kN
Calculation factor A	0.00159
Calculation factor k_r	0.095
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	0.13 kg