



Bearing No. 7205 BECBY

a	24 mm
d	25 mm
D	52 mm
B	15 mm
Noun	Bearing
Bore	0.984 Inch 25 Millimeter
Width	0.591 Inch 15 Millimeter
UNSPSC	31171531
series:	72
Category	Angular Contact Ball Bearing
Enclosure	Open
Snap Ring	No
Size (mm)	52x25x15
Inventory	0.0
Width (mm)	15
Weight / LBS	0.291
maximum rpm:	15000 RPM
Flush Ground	Yes
Mass bearing	0.13 kg
Contact Angle	40 Degree
Cage Material	Brass
closure type:	Open
Product Group	B00308
Inch - Metric	Metric
d_2	30.87 mm
d_1	36.1 mm
D_1	41.5 mm

Other Features	Normal Axial Internal Clearance
fillet radius:	1 mm
contact angle:	40 °
overall width:	15 mm
cage material:	Brass
bore diameter:	25 mm
Keyword String	Angular Contact
Bearing number	7205 BECBY
Limiting speed	15000 r/min
finish/coating:	Uncoated
Rolling Element	Ball Bearing
Precision Class	ABEC 3 ISO P6
Reference speed	15000 r/min
Long Description	25MM Bore; 52MM Outside Diameter; 15MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3 ISO P6; No Filling Slot; No Snap Ring
Outside Diameter	2.047 Inch 52 Millimeter
Manufacturer URL	http://www.skf.com
Weight / Kilogram	0.13
precision rating:	ABEC 3 (ISO Class 6)
outside diameter:	52 mm
Manufacturer Name	SKF
outer ring width:	15 mm
d _a min.	30.6 mm
Number of Bearings	1 (Single)
Bore Diameter (mm)	52
r _b max.	0.6 mm
r _a max.	1 mm

Internal Clearance	CB
D_b max.	47.8 mm
D_a max.	46.4 mm
internal clearance:	C0
Outer Diameter (mm)	25
$r_{1,2}$ min.	1 mm
Calculation factor A	0.00159
Calculation factor e	1.14
Calculation factor X	0.57
Mounting Arrangement	Universal
$r_{3,4}$ min.	0.6 mm
r_b - max.	0.6 mm
r_a - max.	1 mm
D_b - max.	47.8 mm
d_a - min.	30.6 mm
Minimum Buy Quantity	N/A
D_a - max.	46.4 mm
D_1 ?	41.5 mm
d_2 ?	30.87 mm
d_1 ?	36.1 mm
row type & fill slot:	Single-Row Non-Fill Slot
Calculation factor - X	0.35
Calculation factor - e	1.14
$r_{1,2}$ - min.	1 mm
$r_{3,4}$ - min.	0.6 mm
Harmonized Tariff Code	8482.10.50.28
Number of Rows of Balls	Single Row
Manufacturer Item Number	7205 BECBY
Basic dynamic load rating C	15.6 kN
radial static load capacity:	10.2 kN

radial dynamic load capacity:	15.6 kN
Basic dynamic load rating - C	14.8 kN
Maximum Capacity / Filling Slot	No
Calculation factor Y_0	0.52
Calculation factor Y_2	0.93
Calculation factor Y_1	0.55
Calculation factor k_r	0.095
Fatigue load limit P_u	0.43 kN
Calculation factor - k_r	0.095
Calculation factor - Y_0	0.26
Fatigue load limit - P_u	0.4 kN
Calculation factor - Y_1	
Calculation factor - Y_2	0.57
Calculation factor - k_a	1.4
Basic static load rating C_0	10 kN
Basic static load rating - C_0	9.3 kN