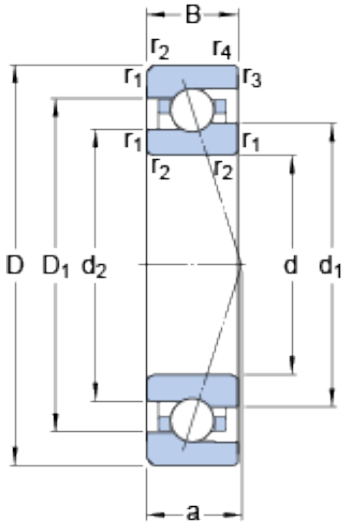
Loyal | 7009 CE/P4A



Bearing No. 7009 CE/P4A

a	16.1 mm
d	45 mm
D	75 mm
B	16 mm
Noun	Bearing
Bore	1.772 Inch | 45 Millimeter
Width	0.63 Inch | 16 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	21
Category	Precision Ball Bearings
Size (mm)	75x45x16
Enclosure	Open
Inventory	0.0
Width (mm)	16
Weight / LBS	0.56
Flush Ground	No
Mass bearing	0.24 kg
d_1	55.7 mm
d_2	53.6 mm
D_1	64.25 mm
Inch - Metric	Metric
Cage Material	Phenolic
Raceway Style	1 Rib Inner Ring and Outer Ring
d_n	57.6 mm
Product Group	B04270
Contact Angle	15 Degree
d_1	55.7 mm
d	57.6 mm

n	
D_1	64.25 mm
d_2	53.6 mm
Bearing number	7009 CE/P4A
Keyword String	Angular Contact Ball
Other Features	Single Row | Angular Contact | High Precision
Material - Ball	Steel
Rolling Element	Ball Bearing
G_{ref}	3.4 cm3
Preload class A	38 N/micron
Preload class B	59 N/micron
Preload class C	79 N/micron
Precision Class	ABEC 7 | ISO P4
Manufacturer URL	http://www.skf.com
Long Description	45MM Bore; 75MM Outside Diameter; 16MM Width; Open Enclosure; ABEC 7 | ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Inner Ring and
Outside Diameter	2.953 Inch | 75 Millimeter
Number of balls z	21
Manufacturer Name	SKF
Weight / Kilogram	0.254
D_b max.	70.8 mm
Bore Diameter (mm)	75
Number of Bearings	1 (Single)
r_b max.	0.6 mm
D_a max.	70.4 mm

r_a max.	1 mm
d_a min.	49.6 mm
d_b min.	49.6 mm
Outer Diameter (mm)	45
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.6 mm
Calculation factor f	1.06
d_a - min.	49.6 mm
Ball - D_w	7.144 mm
d_b - min.	49.6 mm
Minimum Buy Quantity	N/A
D_a - max.	70.4 mm
D_b - max.	70.8 mm
r_a - max.	1 mm
r_b - max.	0.6 mm
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.06
Manufacturer Item Number	7009 CE/P4A
Basic dynamic load rating C	13 kN
Ball diameter D_w	7.144 mm
Preload class A G_A	70 N
Basic dynamic load rating - C	13 kN
Preload class C G_C	410 N
Preload class B G_B	210 N
Preload class A - G_A	70 N
Preload class C - G_C	410 N
Preload class B - G_B	210 N

Calculation factor f_0	8.2
Fatigue load limit P_u	0.36 kN
Calculation factor f_1	1
Calculation factor f_{HC}	1
Calculation factor f_{2C}	1.05
Calculation factor - f	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2A}	1
Calculation factor - f_0	8.2
Limiting speed for oil lubrication	41000 mm/min
Fatigue load limit - P_u	0.36 kN
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2C}	1.05
Limiting speed for grease lubrication	27000 r/min
Basic static load rating C_0	8.5 kN
Static axial stiffness, preload class A	38 N/µm
Static axial stiffness, preload class B	59 N/µm
Static axial stiffness, preload class C	79 N/µm
Attainable speed for grease lubrication	27000 r/min
Attainable speed for oil-air lubrication	41000 r/min
Basic static load rating - C_0	8.5 kN
Reference grease quantity G_{ref}	3.4 cm^3