



Bearing No. 7004 CE/P4A

D	42 mm
d	20 mm
B	12 mm
a	10.2 mm
Noun	Bearing
Bore	0.787 Inch 20 Millimeter
Width	0.472 Inch 12 Millimeter
UNSPSC	31171531
Preload	None
Category	Precision Ball Bearings
Ball - z	12
Inventory	0.0
Enclosure	Open
Size (mm)	42x20x12
Width (mm)	12
Flush Ground	No
Mass bearing	0.064 kg
d ₁	26.6 mm
d ₂	24.8 mm
d _n	28.1 mm
Inch - Metric	Metric
D ₁	34.21 mm
Cage Material	Phenolic
Raceway Style	1 Rib Inner Ring and Outer Ring
d ₂	24.8 mm
Contact Angle	15 Degree
d ₁	26.6 mm

D ₁	34.21 mm
d _n	28.1 mm
Product Group	B04270
Other Features	Single Row Angular Contact High Speed E Design
Keyword String	Ball Angular Contact
Bearing number	7004 CE/P4A
Rolling Element	Ball Bearing
G _{ref}	1.1 cm ³
Material - Ball	Steel
Precision Class	ABEC 7 ISO P4
Preload class A	21 N/micron
Preload class B	32 N/micron
Preload class C	44 N/micron
Outside Diameter	1.654 Inch 42 Millimeter
Manufacturer URL	http://www.skf.com
Long Description	20MM Bore; 42MM Outside Diameter; 12MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Inner Ring and
Manufacturer Name	SKF
Weight / Kilogram	0
Number of balls z	12
D _b max.	39.6 mm
d _b min.	22 mm
d _a min.	22 mm
r _a max.	0.6 mm
r _b max.	0.3 mm

Bore Diameter (mm)	42
D_a max.	40 mm
Number of Bearings	1 (Single)
Outer Diameter (mm)	20
$r_{1,2}$ min.	0.6 mm
Calculation factor f	1.04
Minimum Buy Quantity	N/A
$r_{3,4}$ min.	0.3 mm
r_b - max.	0.3 mm
Ball - D_w	6.35 mm
r_a - max.	0.6 mm
D_b - max.	39.6 mm
D_a - max.	40 mm
d_b - min.	22 mm
d_a - min.	22 mm
$r_{3,4}$ - min.	0.3 mm
$r_{1,2}$ - min.	0.6 mm
Calculation factor - f	1.04
Harmonized Tariff Code	8482.10.50.28
Ball diameter D_w	6.35 mm
Basic dynamic load rating C	7.41 kN
Preload class A G_A	40 N
Preload class B G_B	120 N
Basic dynamic load rating - C	7.4 kN
Preload class C G_C	235 N
Preload class A - G_A	40 N
Preload class B - G_B	120 N
Preload class C - G_C	235 N
Fatigue load limit P_u	0.143 kN
Calculation factor f_0	7.2

Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor - f	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1
Calculation factor - f_0	7.2
Limiting speed for oil lubrication	83000 mm/min
Fatigue load limit - P_u	0.143 kN
Calculation factor - f_{HC}	1
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Limiting speed for grease lubrication	54000 r/min
Basic static load rating C_0	3.35 kN
Static axial stiffness, preload class A	21 N/ μ m
Static axial stiffness, preload class B	32 N/ μ m
Static axial stiffness, preload class C	44 N/ μ m
Attainable speed for grease lubrication	54000 r/min
Attainable speed for oil-air lubrication	83000 r/min
Basic static load rating - C_0	3.4 kN
Reference grease quantity G_{ref}	1.1 cm ³