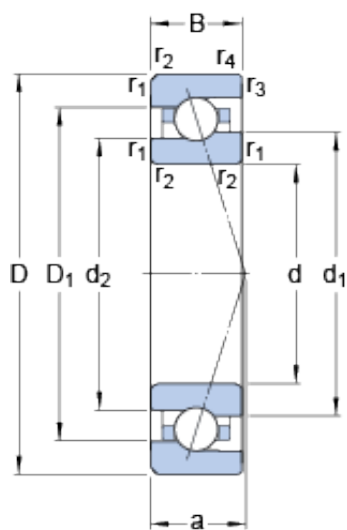




Bearing No. 7005 CE/HCP4A

a	10.8 mm
d	25 mm
D	47 mm
B	12 mm
Noun	Bearing
Bore	0.984 Inch 25 Millimeter
Width	0.472 Inch 12 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	14
Category	Precision Ball Bearings
Size (mm)	47x25x12
Enclosure	Open
Inventory	0.0
Width (mm)	12
Weight / LBS	0.156
Flush Ground	No
Mass bearing	0.065 kg
d ₁	31.6 mm
d ₂	29.8 mm
D ₁	39.21 mm
Inch - Metric	Metric
Cage Material	Phenolic
Raceway Style	1 Rib Inner Ring and Outer Ring
d _n	33.1 mm
Product Group	B04270
Contact Angle	15 Degree
d ₁	31.6 mm

d_n	33.1 mm
D_1	39.21 mm
d_2	29.8 mm
Bearing number	7005 CE/HCP4A
Keyword String	Angular Contact Ball
Other Features	Single Row Angular Contact High Precision Hybrid Corrosion Resistant Ball
Precision Class	ABEC 7 ISO P4
Rolling Element	Ball Bearing
G_{ref}	1.3 cm ³
Preload class A	27 N/micron
Preload class B	41 N/micron
Preload class C	56 N/micron
Material - Ball	Ceramic
Manufacturer URL	http://www.skf.com
Long Description	25MM Bore; 47MM Outside Diameter; 12MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Ceramic Ball Material; 1 (Single) Bearings; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Inner Ring a
Outside Diameter	1.85 Inch 47 Millimeter
Number of balls z	14
Manufacturer Name	SKF
Weight / Kilogram	0.071
D_b max.	44.6 mm
Number of Bearings	1 (Single)
r_b max.	0.3 mm
Bore Diameter (mm)	47

D_a max.	43.8 mm
r_a max.	0.6 mm
d_a min.	28.2 mm
d_b min.	28.2 mm
Outer Diameter (mm)	25
$r_{1,2}$ min.	0.6 mm
$r_{3,4}$ min.	0.3 mm
Calculation factor f	1.05
d_a - min.	28.2 mm
Ball - D_w	6.35 mm
d_b - min.	28.2 mm
Minimum Buy Quantity	N/A
D_a - max.	43.8 mm
D_b - max.	44.6 mm
r_a - max.	0.6 mm
r_b - max.	0.3 mm
$r_{3,4}$ - min.	0.3 mm
$r_{1,2}$ - min.	0.6 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.05
Manufacturer Item Number	7005 CE/HCP4A
Basic dynamic load rating C	8.32 kN
Ball diameter D_w	6.35 mm
Preload class A G_A	45 N
Basic dynamic load rating - C	8.3 kN
Preload class C G_C	260 N
Preload class B G_B	130 N
Preload class A - G_A	45 N
Preload class C - G_C	260 N
Preload class B - G_B	130 N

Calculation factor f_0	7.5
Fatigue load limit P_u	0.173 kN
Calculation factor f_1	1
Calculation factor f_{HC}	1.01
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	7.5
Limiting speed for oil lubrication	85000 mm/min
Fatigue load limit - P_u	0.173 kN
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2C}	1.05
Limiting speed for grease lubrication	56000 r/min
Basic static load rating C_0	4.15 kN
Static axial stiffness, preload class A	27 N/ μ m
Static axial stiffness, preload class B	41 N/ μ m
Static axial stiffness, preload class C	56 N/ μ m
Attainable speed for grease lubrication	56000 r/min
Attainable speed for oil-air lubrication	85000 r/min
Basic static load rating - C_0	4.2 kN
Reference grease quantity G_{ref}	1.3 cm ³

