



Bearing No. 7002 ACD/P4A

D	32 mm
d	15 mm
B	9 mm
a	10.1 mm
Bore	0.591 Inch   15 Millimeter
Noun	Bearing
Width	0.354 Inch   9 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	12
Category	Precision Ball Bearings
Size (mm)	32x15x9
Enclosure	Open
Inventory	0.0
Width (mm)	9
Flush Ground	No
Mass bearing	0.03 kg
d <sub>2</sub>	20.6 mm
Product Group	B04270
d <sub>n</sub>	21.5 mm
d <sub>n</sub>	21.5 mm
D <sub>1</sub>	26.4 mm
d <sub>2</sub>	20.6 mm
d <sub>1</sub>	20.6 mm
d <sub>1</sub>	20.6 mm
Inch - Metric	Metric
D <sub>1</sub>	26.4 mm
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring

Contact Angle	25 Degree
Keyword String	Ball Angular Contact
Other Features	Single Row   Angular Contact   High Capacity Basic Design
Bearing number	7002 ACD/P4A
Material - Ball	Steel
$G_{ref}$	0.39 cm <sup>3</sup>
Precision Class	ABEC 7   ISO P4
Rolling Element	Ball Bearing
Preload class D	92 N/micron
Preload class C	69 N/micron
Preload class B	53 N/micron
Preload class A	41 N/micron
Long Description	15MM Bore; 32MM Outside Diameter; 9MM Width; Open Enclosure; ABEC 7   ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 25 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Racew
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Outside Diameter	1.26 Inch   32 Millimeter
Number of balls z	12
Weight / Kilogram	0
Manufacturer Name	SKF
Bore Diameter (mm)	32
$D_a$ max.	30 mm
$d_b$ min.	17 mm
$r_b$ max.	0.2 mm
$r_a$ max.	0.3 mm
Number of Bearings	1 (Single)

$D_b$ max.	30.6 mm
$d_a$ min.	17 mm
Outer Diameter (mm)	15
$D_a$ - max.	30 mm
Ball - $D_w$	4.762 mm
$D_b$ - max.	30.6 mm
Calculation factor f	1.03
$r_{1,2}$ min.	0.3 mm
Minimum Buy Quantity	N/A
$r_a$ - max.	0.3 mm
$d_b$ - min.	17 mm
$r_{3,4}$ min.	0.2 mm
Calculation factor e	0.68
$r_b$ - max.	0.2 mm
$d_a$ - min.	17 mm
Calculation factor - e	0.68
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.03
$r_{1,2}$ - min.	0.3 mm
$r_{3,4}$ - min.	0.2 mm
Ball diameter $D_w$	4.762 mm
Basic dynamic load rating C	4.94 kN
Preload class B $G_B$	60 N
Preload class D $G_D$	240 N
Preload class A $G_A$	30 N
Basic dynamic load rating - C	4.9 kN
Preload class C $G_C$	120 N
Preload class A - $G_A$	30 N
Preload class B - $G_B$	60 N
Preload class C - $G_C$	120 N

Preload class D - $G_D$	240 N
Fatigue load limit $P_u$	0.098 kN
Calculation factor $f_1$	0.99
Calculation factor $f_{HC}$	1
Calculation factor $f_{2D}$	1.08
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2A}$	1
Calculation factor - $Y_1$	0.92
Fatigue load limit - $P_u$	0.098 kN
Calculation factor - $Y_2$	1.41
Calculation factor - $f_1$	0.99
Calculation factor - $X_2$	0.67
Limiting speed for oil lubrication	75000 mm/min
Calculation factor - $Y_0$	0.76
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2D}$	1.08
Calculation factor - $f_{HC}$	1
Limiting speed for grease lubrication	50000 r/min
Basic static load rating $C_0$	2.32 kN
Static axial stiffness, preload class C	69 N/ $\mu$ m
Static axial stiffness, preload class A	41 N/ $\mu$ m
Static axial stiffness, preload class D	92 N/ $\mu$ m
Attainable speed for	50000 r/min

grease lubrication	
Static axial stiffness, preload class B	53 N/ $\mu$ m
Basic static load rating - $C_0$	2.3 kN
Attainable speed for oil-air lubrication	75000 r/min
Reference grease quantity $G_{ref}$	0.39 cm <sup>3</sup>
Calculation factor (single, tandem) $Y_2$	0.87
Calculation factor (single, tandem) $Y_0$	0.38
Calculation factor (single, tandem) $X_2$	0.41
Calculation factor (back-to-back, face-to-face) $Y_1$	0.92
Calculation factor (back-to-back, face-to-face) $Y_2$	1.41
Calculation factor (back-to-back, face-to-face) $Y_0$	0.76
Calculation factor (back-to-back, face-to-face) $X_2$	0.67