



# UNF BRAINGS SALES JAPAN CO.,LTD.



## 105 mm x 160 mm x 26 mm SKF 7021 CD/P4A Machined Brass Cages Angular Contact Ball Bearings

Bearing No. 7021 CD/P4A

7021 CD/P4A Bearing 2D drawings and 3D CAD models

Size	160x105x26 mm
Bore Diameter	160 mm
Outer Diameter	105 mm
Width	26 mm
d	105 mm
D	160 mm
B	26 mm
d <sub>1</sub>	121.9 mm
d <sub>2</sub>	121.9 mm
D <sub>1</sub>	143.1 mm
r <sub>1,2</sub> - min.	2 mm
r <sub>3,4</sub> - min.	1 mm
a	30.8 mm
d <sub>a</sub> - min.	114 mm
d <sub>b</sub> - min.	114 mm
D <sub>a</sub> - max.	151 mm
D <sub>b</sub> - max.	155 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	125.6 mm
Basic dynamic load rating - C	95.6 kN
Basic static load rating - C <sub>0</sub>	96.5 kN
Fatigue load limit - P <sub>u</sub>	3.6 kN



## UNF BRAINGS SALES JAPAN CO.,LTD.

Limiting speed for grease lubrication	8000 r/min
Limiting speed for oil lubrication	13000 mm/min
Ball - $D_w$	17.462 mm
Ball - z	21
$G_{ref}$	20.4 cm <sup>3</sup>
Calculation factor - $f_0$	15.7
Preload class A - $G_A$	360 N
Preload class B - $G_B$	720 N
Preload class C - $G_C$	1440 N
Preload class D - $G_D$	2880 N
Calculation factor - f	1.15
Calculation factor - f	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2D}$	1.09
Calculation factor - $f_{HC}$	1
Preload class A	117 N/micron
Preload class B	159 N/micron
Preload class C	223 N/micron
Preload class D	324 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0
EAN	7316570358605
Product Group	B04270
Enclosure	Open



## UNF BRAINGS SALES JAPAN CO.,LTD.

Precision Class	ABEC 7   ISO P4
Material - Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	15 Degree
Preload	None
Raceway Style	1 Rib Outer Ring
Cage Material	Phenolic
Rolling Element	Ball Bearing
Flush Ground	No
Inch - Metric	Metric
Other Features	Single Row   Angular Contact   High Capacity Basic Design
Long Description	105MM Bore; 160MM Outside Diameter; 26MM Width; Open Enclosure; ABEC 7   ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Ra
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Ball Angular Contact
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Outside Diameter	6.299 Inch   160 Millimeter
Width	1.024 Inch   26 Millimeter
Bore	4.134 Inch   105 Millimeter
d <sub>1</sub>	121.9 mm
d <sub>2</sub>	121.9 mm
D <sub>1</sub>	143.1 mm
r <sub>1,2</sub> min.	2 mm



## UNF BRAINGS SALES JAPAN CO.,LTD.

$r_{3,4}$ min.	1 mm
$d_a$ min.	114 mm
$d_b$ min.	114 mm
$D_a$ max.	151 mm
$D_b$ max.	155 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
$d_n$	125.6 mm
Basic dynamic load rating C	95.6 kN
Basic static load rating $C_0$	96.5 kN
Fatigue load limit $P_u$	3.6 kN
Attainable speed for grease lubrication	8000 r/min
Attainable speed for oil-air lubrication	13000 r/min
Ball diameter $D_w$	17.462 mm
Number of balls z	21
Reference grease quantity $G_{ref}$	20.4 cm <sup>3</sup>
Preload class A $G_A$	360 N
Static axial stiffness, preload class A	117 N/ $\mu$ m
Preload class B $G_B$	720 N
Static axial stiffness, preload class B	159 N/ $\mu$ m
Preload class C $G_C$	1440 N
Static axial stiffness, preload class C	223 N/ $\mu$ m
Preload class D $G_D$	2880 N
Static axial stiffness, preload class D	324 N/ $\mu$ m
Calculation factor f	1.15
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1



## UNF BRAINGS SALES JAPAN CO.,LTD.

Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2D}$	1.09
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	15.7
Mass bearing	1.59 kg