



# BEARING CORP. LTD.



7032 CD/P4A Bearing 2D drawings and 3D CAD models

160 mm x 240 mm x 38 mm SKF 7032 CD/P4A angular contact ball bearings

Bearing No. 7032 CD/P4A

Size	240x160x38 mm
Bore Diameter	240 mm
Outer Diameter	160 mm
Width	38 mm
d	160 mm
D	240 mm
B	38 mm
d <sub>1</sub>	184.7 mm
d <sub>2</sub>	184.7 mm
D <sub>1</sub>	215.3 mm
r <sub>1,2</sub> - min.	2.1 mm
r <sub>3,4</sub> - min.	1 mm
a	45.9 mm
d <sub>a</sub> - min.	171 mm
d <sub>b</sub> - min.	171 mm
D <sub>a</sub> - max.	229 mm
D <sub>b</sub> - max.	235 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	191.4 mm
Basic dynamic load rating - C	195 kN
Basic static load rating - C <sub>0</sub>	216 kN
Fatigue load limit - P <sub>u</sub>	6.6 kN
Limiting speed for grease	5600 r/min



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Lubrication	
Limiting speed for oil lubrication	8500 mm/min
Ball - $D_w$	25.4 mm
Ball - $z$	22
$G_{ref}$	66 cm3
Calculation factor - $f_0$	15.8
Preload class A - $G_A$	730 N
Preload class B - $G_B$	1460 N
Preload class C - $G_C$	2920 N
Preload class D - $G_D$	5840 N
Calculation factor - $f$	1.16
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	171 N/micron
Preload class B	233 N/micron
Preload class C	327 N/micron
Preload class D	472 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	5.755
Product Group	B04270
Enclosure	Open
Precision Class	ABEC 7   ISO P4



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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 Precision
Long Description	160MM Bore; 240MM Outside Diameter; 38MM Width; Open Enclosure; ABEC 7   ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring R
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact Ball
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	7032 CD/P4A
Weight / LBS	12.677
Width	1.496 Inch   38 Millimeter
Bore	6.299 Inch   160 Millimeter
Outside Diameter	9.449 Inch   240 Millimeter
d <sub>1</sub>	184.7 mm
d <sub>2</sub>	184.7 mm
D <sub>1</sub>	215.3 mm
r <sub>1,2</sub> min.	2.1 mm



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$r_{3,4}$ min.	1 mm
$d_a$ min.	171 mm
$d_b$ min.	171 mm
$D_a$ max.	229 mm
$D_b$ max.	235 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
$d_n$	191.4 mm
Basic dynamic load rating C	195 kN
Basic static load rating $C_0$	216 kN
Fatigue load limit $P_u$	6.55 kN
Attainable speed for grease lubrication	5600 r/min
Attainable speed for oil-air lubrication	8500 r/min
Ball diameter $D_w$	25.4 mm
Number of balls z	22
Reference grease quantity $G_{ref}$	66 cm <sup>3</sup>
Preload class A $G_A$	730 N
Static axial stiffness, preload class A	171 N/ $\mu$ m
Preload class B $G_B$	1460 N
Static axial stiffness, preload class B	233 N/ $\mu$ m
Preload class C $G_C$	2920 N
Static axial stiffness, preload class C	327 N/ $\mu$ m
Preload class D $G_D$	5840 N
Static axial stiffness, preload class D	472 N/ $\mu$ m
Calculation factor f	1.16
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1



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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 $f_0$	15.8
Mass bearing	5.15 kg