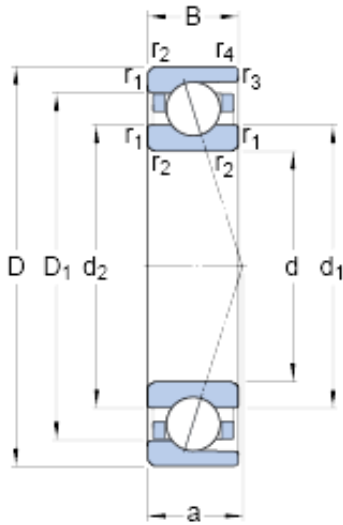




ISO Bearing Rolamentos do Brasil Ltda.



200 mm x 310 mm x 51 mm SKF 7040
ACD/P4A Rodas de aço pressionadas Fila única
Linhas Angulares Barbas de Bola

Bearing No. 7040 ACD/P4A

7040 ACD/P4A Bearing 2D drawings and 3D CAD models

Size	310x200x51 mm
Bore Diameter	310 mm
Outer Diameter	200 mm
Width	51 mm
d	200 mm
D	310 mm
B	51 mm
d ₁	233.9 mm
d ₂	233.9 mm
D ₁	276.1 mm
r _{1,2} - min.	2.1 mm
r _{3,4} - min.	1.1 mm
a	85.3 mm
d _a - min.	211 mm
d _b - min.	211 mm
D _a - max.	299 mm
D _b - max.	304 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	243.2 mm
Basic dynamic load rating - C	281 kN
Basic static load rating - C ₀	365 kN
Fatigue load limit - P _u	9.8 kN



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Limiting speed for grease lubrication	4000 r/min
Limiting speed for oil lubrication	6000 mm/min
Ball - D_w	34.925 mm
Ball - z	21
G_{ref}	153 cm ³
Calculation factor - e	0.68
Calculation factor - Y_2	0.87
Calculation factor - Y_0	0.38
Calculation factor - X_2	0.41
Calculation factor - Y_1	0.92
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Preload class A - G_A	1750 N
Preload class B - G_B	3500 N
Preload class C - G_C	7000 N
Preload class D - G_D	14000 N
Calculation factor - f	1.14
Calculation factor - f_1	0.99
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
Preload class A	509 N/micron
Preload class B	660 N/micron
Preload class C	871 N/micron
Preload class D	1170 N/micron



ISO Bearing Rolamentos do Brasil Ltda.

Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	13.182
EAN	7316570306330
Product Group	B04270
Enclosure	Open
Precision Class	ABEC 7 ISO P4
Material - Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	25 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	200MM Bore; 310MM Outside Diameter; 51MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 25 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	http://www.skf.com



ISO Bearing Rolamentos do Brasil Ltda.

Manufacturer Item Number	7040 ACD/P4A
Weight / LBS	29.035
Width	2.008 Inch 51 Millimeter
Bore	7.874 Inch 200 Millimeter
Outside Diameter	12.205 Inch 310 Millimeter
d_1	233.9 mm
d_2	233.9 mm
D_1	276.1 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1.1 mm
d_a min.	211 mm
d_b min.	211 mm
D_a max.	299 mm
D_b max.	304 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	243.2 mm
Basic dynamic load rating C	281 kN
Basic static load rating C_0	365 kN
Fatigue load limit P_u	9.8 kN
Attainable speed for grease lubrication	4000 r/min
Attainable speed for oil-air lubrication	6000 r/min
Ball diameter D_w	34.925 mm
Number of balls z	21
Reference grease quantity G_{ref}	153 cm ³
Preload class A G_A	1750 N
Static axial stiffness, preload class A	509 N/ μ m
Preload class B G_B	3500 N
Static axial stiffness, preload class B	660 N/ μ m



ISO Bearing Rolamentos do Brasil Ltda.

Preload class C G_C	7000 N
Static axial stiffness, preload class C	871 N/ μ m
Preload class D G_D	14000 N
Static axial stiffness, preload class D	1170 N/ μ m
Calculation factor f	1.14
Calculation factor f_1	0.99
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
Calculation factor e	0.68
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
Mass bearing	12.3 kg