



Bearing No. 71940 CD/P4A

a	51.3 mm
d	200 mm
D	280 mm
B	38 mm
C	38 mm
D2	– mm
d2	224,7 mm
D1	255,3 mm
dh	231,4 mm
d1	224,7 mm
Noun	Bearing
Bore	7.874 Inch 200 Millimeter
Width	1.496 Inch 38 Millimeter
db min	209 mm
UNSPSC	31171531
Weight	6,1 Kg
Db max	275 mm
ra max.	2 mm
rb max.	1 mm
Da max.	271 mm
da min.	209 mm
r4 min.	1 mm
r3 min.	1 mm
r2 min.	2,1 mm
r1 min.	2,1 mm
Preload	None
Category	Precision Ball Bearings
Size (mm)	200x280x38
Enclosure	Open

Inventory	0.0
Width (mm)	38
Flush Ground	No
Mass bearing	6.1 kg
d ₁	224.7 mm
Product Group	B04270
d ₂	224.7 mm
D ₁	255.3 mm
Inch - Metric	Metric
Cage Material	Phenolic
Contact Angle	15 Degree
d _n	231.4 mm
Raceway Style	1 Rib Outer Ring
Keyword String	Ball Angular Contact
Bearing number	71940 CD/P4A
Other Features	Single Row Angular Contact High Capacity Basic Design
Precision Class	ABEC 7 ISO P4
Rolling Element	Ball Bearing
Material - Ball	Steel
Long Description	200MM Bore; 280MM Outside Diameter; 38MM 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
Manufacturer URL	http://www.skf.com
Outside Diameter	11.024 Inch 280 Millimeter
Weight / Kilogram	0
Number of balls z	26

Manufacturer Name	SKF
d_a min.	209 mm
Number of Bearings	1 (Single)
r_b max.	1 mm
r_a max.	2 mm
D_b max.	275 mm
D_a max.	271 mm
d_b min.	209 mm
Bore Diameter (mm)	200
Outer Diameter (mm)	280
$r_{1,2}$ min.	2.1 mm
Calculation factor f	1.23
Minimum Buy Quantity	N/A
$r_{3,4}$ min.	1 mm
Harmonized Tariff Code	8482.10.50.28
(Oil) Lubrication Speed	7 000 r/min
Fatigue load limit (Pu)	7,2
(Grease) Lubrication Speed	4 800 r/min
Basic dynamic load rating C	208 kN
Ball diameter D_w	25.4 mm
Preload class D G_D	6400 N
Preload class C G_C	3200 N
Preload class B G_B	1600 N
Preload class A G_A	800 N
Basic dynamic load rating (C)	208 kN
Basic static load rating (C0)	265 kN
Calculation factor f_1	1
Calculation factor f_0	16.3
Fatigue load limit P_u	7.2 kN

Calculation factor f_{HC}	1
Calculation factor f_{2D}	1.15
Calculation factor f_{2C}	1.09
Calculation factor f_{2B}	1.04
Calculation factor f_{2A}	1
Basic static load rating C_0	265 kN
Static axial stiffness, preload class D	565 N/ μ m
Static axial stiffness, preload class C	387 N/ μ m
Static axial stiffness, preload class B	275 N/ μ m
Attainable speed for grease lubrication	4800 r/min
Static axial stiffness, preload class A	202 N/ μ m
Attainable speed for oil- air lubrication	7000 r/min
Reference grease quantity G_{ref}	81 cm ³