



Bearing No. 71800 ACD/P4

a	5.9 mm
d	10 mm
D	19 mm
B	5 mm
Noun	Bearing
Bore	0.394 Inch 10 Millimeter
UNSPSC	31171531
Flanges	No
Preload	None
Ball - z	12
Category	Miniature Precision Ball Bearings
Size (mm)	19x10x5
Enclosure	Open
Inventory	0.0
Width (mm)	5
Flush Ground	No
Weight / LBS	0.023
Mass bearing	0.005 kg
d ₁	13.1 mm
Product Group	B04270
d _n	13.4 mm
d _n	13.4 mm
D ₁	16.1 mm
d ₂	13.1 mm
d ₁	13.1 mm
d ₂	13.1 mm
Inch - Metric	Metric
D ₁	16.1 mm

Cage Material	Phenolic
Contact Angle	25 Degree
Raceway Style	1 Rib Outer Ring
Race Material	Steel
Keyword String	Angular Contact Ball
Other Features	Single Row Angular Contact Super Precision
Bearing number	71800 ACD/P4
G _{ref}	0.06 cm ³
Rolling Element	Ball Bearing
Material - Ball	Steel
Preload class A	30 N/micron
Preload class B	47 N/micron
Preload class C	65 N/micron
Precision Class	ABEC 7 ISO P4
Long Description	10MM Bore; 19MM Outside Diameter; 5MM Inner Race Width; 5MM Outer Race Width; Open Enclosure; ABEC 7 ISO P4 Precision; No Flange; Steel Ball Material; Steel Race Material; 1 (Single) Bearing
Manufacturer URL	http://www.skf.com
Inner Race Width	0.197 Inch 5 Millimeter
Outside Diameter	0.748 Inch 19 Millimeter
Outer Race Width	0.197 Inch 5 Millimeter
Weight / Kilogram	0.01
Manufacturer Name	SKF
Number of balls z	12
r _a max.	0.3 mm
Number of Bearings	1 (Single)

d_a min.	12 mm
r_b max.	0.15 mm
D_b max.	18.2 mm
D_a max.	17 mm
d_b min.	12 mm
Bore Diameter (mm)	19
Outer Diameter (mm)	10
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
Calculation factor f	1.05
r_b - max.	0.15 mm
Calculation factor e	0.68
Ball - D_w	2.381 mm
r_a - max.	0.3 mm
D_b - max.	18.2 mm
Minimum Buy Quantity	N/A
d_a - min.	12 mm
D_a - max.	17 mm
d_b - min.	12 mm
Calculation factor - e	0.68
$r_{1,2}$ - min.	0.3 mm
$r_{3,4}$ - min.	0.15 mm
Calculation factor - f	1.05
Harmonized Tariff Code	8482.10.50.28
Flange Outside Diameter	0 Inch 0 Millimeter
Manufacturer Item Number	71800 ACD/P4
Basic dynamic load rating C	1.78 kN
Ball diameter D_w	2.381 mm
Preload class B G_B	48 N
Preload class A G_A	16 N

Preload class C G_C	100 N
Basic dynamic load rating - C	1.8 kN
Preload class B - G_B	48 N
Preload class A - G_A	16 N
Preload class C - G_C	100 N
Calculation factor f_1	0.97
Fatigue load limit P_u	0.04 kN
Calculation factor f_{2B}	1.08
Calculation factor f_{2A}	1
Calculation factor f_{HC}	1
Calculation factor f_{2C}	1.15
Calculation factor - f_1	0.97
Fatigue load limit - P_u	0.04 kN
Limiting speed for oil lubrication	110000 mm/min
Calculation factor - Y_2	1.41
Calculation factor - Y_1	0.92
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Calculation factor - f_{2B}	1.08
Calculation factor - f_{HC}	1
Calculation factor - f_{2C}	1.15
Calculation factor - f_{2A}	1
Limiting speed for grease lubrication	70000 r/min
Basic static load rating C_0	0.93 kN
Static axial stiffness, preload class C	65 N/ μ m
Static axial stiffness, preload class A	30 N/ μ m

Attainable speed for grease lubrication	70000 r/min
Static axial stiffness, preload class B	47 N/ μ m
Basic static load rating - C_0	0.93 kN
Attainable speed for oil-air lubrication	110000 r/min
Reference grease quantity G_{ref}	0.06 cm ³
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