



**Bearing No. 7217 ACD/P4A**

D	150 mm
d	85 mm
B	28 mm
a	41.7 mm
Bore	3.346 Inch   85 Millimeter
Noun	Bearing
Width	1.102 Inch   28 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	17
Category	Precision Ball Bearings
Size (mm)	150x85x28
Enclosure	Open
Inventory	0.0
Width (mm)	28
Flush Ground	No
Mass bearing	1.86 kg
d <sub>2</sub>	106.5 mm
Product Group	B04270
d <sub>n</sub>	111.5 mm
d <sub>n</sub>	111.5 mm
D <sub>1</sub>	129.5 mm
d <sub>2</sub>	106.5 mm
d <sub>1</sub>	106.5 mm
d <sub>1</sub>	106.5 mm
Inch - Metric	Metric
D <sub>1</sub>	129.5 mm
Cage Material	Phenolic

Raceway Style	1 Rib Outer Ring
Contact Angle	25 Degree
Keyword String	Ball Angular Contact
Other Features	Single Row   Angular Contact   Super Precision   High Capacity Basic Design
Bearing number	7217 ACD/P4A
Material - Ball	Steel
$G_{ref}$	21.822 cm <sup>3</sup>
Precision Class	ABEC 7   ISO P4
Rolling Element	Ball Bearing
Preload class D	578 N/micron
Preload class C	429 N/micron
Preload class B	325 N/micron
Preload class A	250 N/micron
Long Description	85MM Bore; 150MM Outside Diameter; 28MM Width; Open Enclosure; ABEC 7   ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 25 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Rac
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Outside Diameter	5.906 Inch   150 Millimeter
Number of balls z	17
Weight / Kilogram	0
Manufacturer Name	SKF
Bore Diameter (mm)	150
$D_a$ max.	139 mm
$d_b$ min.	96 mm
$r_b$ max.	1 mm

$r_a$ max.	2 mm
Number of Bearings	1 (Single)
$D_b$ max.	144.4 mm
$d_a$ min.	96 mm
Outer Diameter (mm)	85
$D_a$ - max.	139 mm
Ball - $D_w$	19.05 mm
$D_b$ - max.	144.4 mm
Calculation factor f	1.08
$r_{1,2}$ min.	2 mm
Minimum Buy Quantity	N/A
$r_a$ - max.	2 mm
$d_b$ - min.	96 mm
$r_{3,4}$ min.	1 mm
Calculation factor e	0.68
$r_b$ - max.	1 mm
$d_a$ - min.	96 mm
Calculation factor - e	0.68
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.08
$r_{1,2}$ - min.	2 mm
$r_{3,4}$ - min.	1 mm
Ball diameter $D_w$	19.05 mm
Basic dynamic load rating C	95.6 kN
Preload class B $G_B$	1200 N
Preload class D $G_D$	4800 N
Preload class A $G_A$	600 N
Basic dynamic load rating - C	95.6 kN
Preload class C $G_C$	2400 N
Preload class A - $G_A$	600 N

Preload class B - $G_B$	1200 N
Preload class C - $G_C$	2400 N
Preload class D - $G_D$	4800 N
Fatigue load limit $P_u$	3.35 kN
Calculation factor $f_1$	0.99
Calculation factor $f_{HC}$	1
Calculation factor $f_{2D}$	1.05
Calculation factor $f_{2C}$	1.02
Calculation factor $f_{2B}$	1.01
Calculation factor $f_{2A}$	1
Calculation factor - $Y_1$	0.92
Fatigue load limit - $P_u$	3.4 kN
Calculation factor - $Y_2$	1.41
Calculation factor - $f_1$	0.99
Calculation factor - $X_2$	0.67
Limiting speed for oil lubrication	13000 mm/min
Calculation factor - $Y_0$	0.76
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.01
Calculation factor - $f_{2C}$	1.02
Calculation factor - $f_{2D}$	1.05
Calculation factor - $f_{HC}$	1
Limiting speed for grease lubrication	8000 r/min
Basic static load rating $C_0$	85 kN
Static axial stiffness, preload class C	429 N/ $\mu$ m
Static axial stiffness, preload class A	250 N/ $\mu$ m

Static axial stiffness, preload class D	578 N/ $\mu$ m
Attainable speed for grease lubrication	8000 r/min
Static axial stiffness, preload class B	325 N/ $\mu$ m
Basic static load rating - $C_0$	85 kN
Attainable speed for oil-air lubrication	13000 r/min
Reference grease quantity $G_{ref}$	21.822 cm <sup>3</sup>
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