



NUP BEARING LTD



45 mm x 68 mm x 12 mm skf S71909 ACD/P4A
Super-precision Angular contact ball bearings

Bearing No. S71909 ACD/P4A

S71909 ACD/P4A Bearing 2D drawings and 3D CAD models

Size	68x45x12 mm
Bore Diameter	68 mm
Outer Diameter	45 mm
Width	12 mm
d	45 mm
D	68 mm
B	12 mm
d ₁	52.6 mm
d ₂	52.6 mm
D ₂	62.62 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	19.3 mm
d _a - min.	48.2 mm
d _a - max.	52.1 mm
d _b - min.	48.2 mm
d _b - max.	52.1 mm
D _a - max.	64.8 mm
D _b - max.	66.6 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
Basic dynamic load rating - C	12.4 kN
Basic static load rating - C ₀	9 kN
Fatigue load limit - P _u	0.38 kN



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Limiting speed for grease lubrication	17000 r/min
Ball - D_w	6.35 mm
Ball - z	23
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	80 N
Preload class B - G_B	160 N
Preload class C - G_C	320 N
Preload class D - G_D	640 N
Calculation factor - f	1.11
Calculation factor - f_1	0.98
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.04
Calculation factor - f_{2C}	1.08
Calculation factor - f_{2D}	1.14
Calculation factor - f_{HC}	1
Preload class A	100 N/micron
Preload class B	129 N/micron
Preload class C	168 N/micron
Preload class D	225 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF



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Minimum Buy Quantity	N/A
Weight / Kilogram	0
Product Group	B04270
Enclosure	2 Seals
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
Enclosure Type	Non Contact Seal
Flush Ground	No
Inch - Metric	Metric
Other Features	Single Row Angular Contact High Capacity Basic Design
Long Description	45MM Bore; 68MM Outside Diameter; 12MM Width; 2 Seals Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 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	Ball Angular Contact
Manufacturer URL	http://www.skf.com
Bore	1.772 Inch 45 Millimeter
Outside Diameter	2.677 Inch 68 Millimeter



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Width	0.472 Inch 12 Millimeter
d_1	52.6 mm
d_2	52.6 mm
D_2	62.62 mm
$r_{1,2}$ min.	0.6 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	48.2 mm
d_a max.	52.1 mm
d_b min.	48.2 mm
d_b max.	52.1 mm
D_a max.	64.8 mm
D_b max.	66.6 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
Basic dynamic load rating C	12.4 kN
Basic static load rating C_0	9 kN
Fatigue load limit P_u	0.38 kN
Attainable speed for grease lubrication	17000 r/min
Ball diameter D_w	6.35 mm
Number of balls z	23
Preload class A G_A	80 N
Static axial stiffness, preload class A	100 N/ μ m
Preload class B G_B	160 N
Static axial stiffness, preload class B	129 N/ μ m
Preload class C G_C	320 N
Static axial stiffness, preload class C	168 N/ μ m
Preload class D G_D	640 N
Static axial stiffness, preload class D	225 N/ μ m
Calculation factor f	1.11



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Calculation factor f_1	0.98
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.08
Calculation factor f_{2D}	1.14
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	0.13 kg