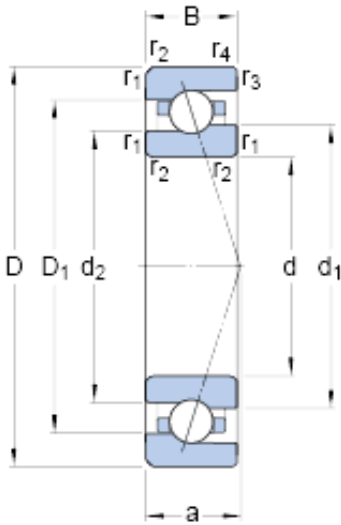




# ALL TYPES BEARINGS BUSINESS CO.,LTD.



7012 CE/HCP4A Bearing 2D drawings and 3D CAD models

60 mm x 95 mm x 18 mm SKF 7012 CE/HCP4A angular contact ball bearings

Bearing No. 7012 CE/HCP4A

Size	95x60x18 mm
Bore Diameter	95 mm
Outer Diameter	60 mm
Width	18 mm
d	60 mm
D	95 mm
B	18 mm
d <sub>1</sub>	72.74 mm
d <sub>2</sub>	70.6 mm
D <sub>1</sub>	82.22 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	19.5 mm
d <sub>a</sub> - min.	66 mm
d <sub>b</sub> - min.	66 mm
D <sub>a</sub> - max.	89 mm
D <sub>b</sub> - max.	90.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	74.6 mm
Basic dynamic load rating - C	17.2 kN
Basic static load rating - C <sub>0</sub>	12.9 kN
Fatigue load limit - P <sub>u</sub>	0.54 kN
Limiting speed for grease	24000 r/min



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Lubrication	
Limiting speed for oil lubrication	37000 mm/min
Ball - $D_w$	7.938 mm
Ball - $z$	25
$G_{ref}$	5.3 cm <sup>3</sup>
Calculation factor - $f_0$	8.5
Preload class A - $G_A$	92 N
Preload class B - $G_B$	275 N
Preload class C - $G_C$	550 N
Calculation factor - $f$	1.08
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.03
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{HC}$	1.01
Preload class A	53 N/micron
Preload class B	83 N/micron
Preload class C	112 N/micron
$d_1$	72.74 mm
$d_2$	70.6 mm
$D_1$	82.22 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	66 mm
$d_b$ min.	66 mm
$D_a$ max.	89 mm
$D_b$ max.	90.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	74.6 mm



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Basic dynamic load rating C	17.2 kN
Basic static load rating $C_0$	12.9 kN
Fatigue load limit $P_u$	0.54 kN
Attainable speed for grease lubrication	24000 r/min
Attainable speed for oil-air lubrication	37000 r/min
Ball diameter $D_w$	7.938 mm
Number of balls z	25
Reference grease quantity $G_{ref}$	5.3 cm <sup>3</sup>
Preload class A $G_A$	92 N
Static axial stiffness, preload class A	53 N/ $\mu$ m
Preload class B $G_B$	275 N
Static axial stiffness, preload class B	83 N/ $\mu$ m
Preload class C $G_C$	550 N
Static axial stiffness, preload class C	112 N/ $\mu$ m
Calculation factor f	1.08
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{HC}$	1.01
Calculation factor $f_0$	8.5
Mass bearing	0.39 kg