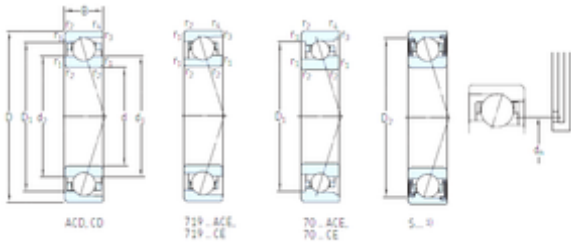


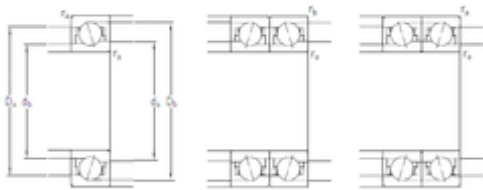


# PIE Bearing Technology Co., Ltd



## SKF S7005 CE/HCP4A angular contact ball bearings

Bearing No. S7005 CE/HCP4A



S7005 CE/HCP4A Bearing 2D drawings and 3D CAD models

Size	25x47x12 mm
Bore Diameter	25 mm
Outer Diameter	47 mm
Width	12 mm
d	25 mm
D	47 mm
B	12 mm
C	12 mm
d1	31,6 mm
d2	29,8 mm
r1 min.	0,6 mm
r2 min.	0,6 mm
r3 min.	0,3 mm
r4 min.	0,3 mm
D1	41,5 mm
D2	41,5 mm
da min.	28,2 mm
Da max.	43,8 mm
db min	28,2 mm
ra max.	0,6 mm
rb max.	0,3 mm
dh	33,1 mm
Db max	44,6 mm
Weight	0,065 Kg
Basic dynamic load rating (C)	8,32 kN



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Basic static load rating (C0)	4,15 kN
(Grease) Lubrication Speed	56 000 r/min
(Oil) Lubrication Speed	85 000 r/min
Fatigue load limit (Pu)	0,173
d <sub>1</sub>	31.6 mm
d <sub>2</sub>	29.8 mm
D <sub>2</sub>	41.5 mm
r <sub>1,2</sub> min.	0.6 mm
r <sub>3,4</sub> min.	0.3 mm
a	10.8 mm
d <sub>a</sub> min.	28.2 mm
d <sub>a</sub> max.	31.2 mm
d <sub>b</sub> min.	28.2 mm
d <sub>b</sub> max.	29.4 mm
D <sub>a</sub> max.	43.8 mm
D <sub>b</sub> max.	44.6 mm
r <sub>a</sub> max.	0.6 mm
r <sub>b</sub> max.	0.3 mm
Basic dynamic load rating C	8.32 kN
Basic static load rating C <sub>0</sub>	4.15 kN
Fatigue load limit P <sub>u</sub>	0.173 kN
Attainable speed for grease lubrication	56000 r/min
Ball diameter D <sub>w</sub>	6.35 mm
Number of balls z	14
Preload class A G <sub>A</sub>	45 N
Static axial stiffness, preload class A	27 N/ μ m
Preload class B G <sub>B</sub>	130 N
Static axial stiffness, preload class B	41 N/ μ m
Preload class C G <sub>C</sub>	260 N
Static axial stiffness, preload	56 N/ μ m



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class C	
Calculation factor $f$	1.05
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 $f_0$	7.5
Mass bearing	0.068 kg