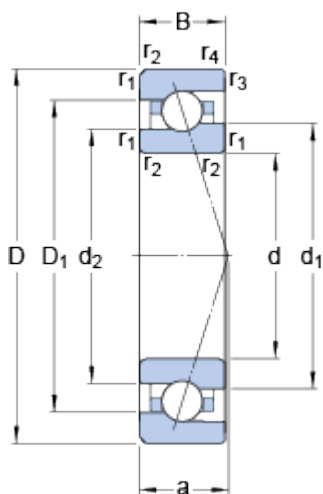


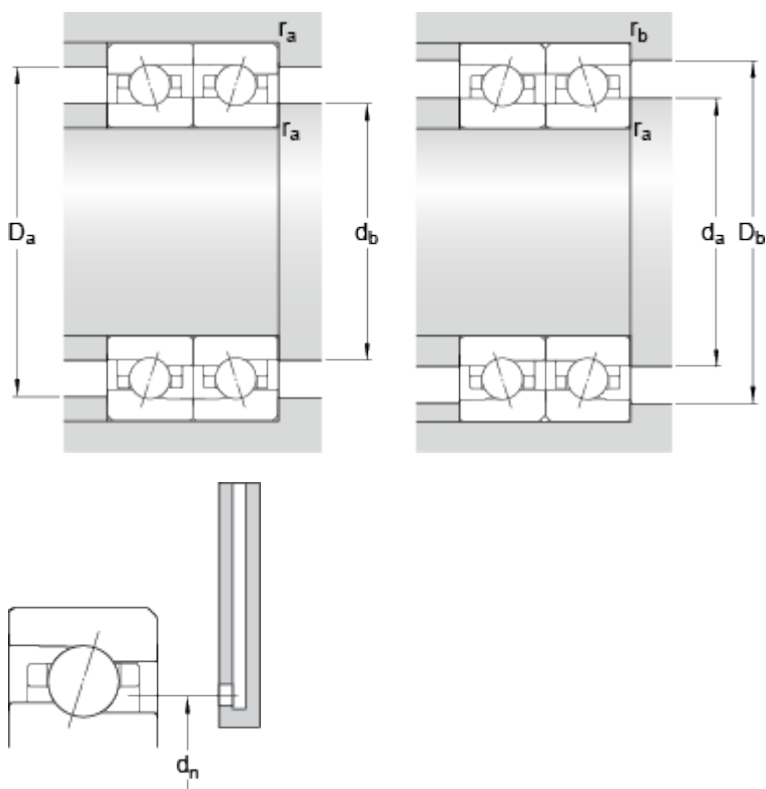
7002 CE/P4A

Dimensions



d	15	mm
D	32	mm
B	9	mm
d ₁	20.65	mm
d ₂	19.5	mm
D ₁	26.9	mm
r _{1,2}	min. 0.3	mm
r _{3,4}	min. 0.15	mm
a	7.7	mm

Abutment dimensions



d _a	min. 17	mm
d _b	min. 17	mm
D _a	max. 30	mm
D _b	max. 30.6	mm
r _a	max. 0.3	mm
r _b	max. 0.15	mm
d _n	21.9	mm

Calculation data

Basic dynamic load rating	C	4.42	kN
Basic static load rating	C ₀	1.93	kN
Fatigue load limit	P _u	0.08	kN
Attainable speed for grease lubrication		68000	r/min
Attainable speed for oil-air lubrication		106000	r/min
Ball diameter	D _w	4.762	mm
Number of balls	z	12	

Reference grease quantity	G_{ref}	0.5	cm ³
Preload and stiffness (back-to-back, face-to-face)			
Preload class A	G_A	25	N
Static axial stiffness, preload class A		16	N/μm
Preload class B	G_B	70	N
Static axial stiffness, preload class B		25	N/μm
Preload class C	G_C	140	N
Static axial stiffness, preload class C		34	N/μm

Calculation factors

Calculation factor	f	1.03	
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	
Calculation factor	f_0	7.3	

Mass

Mass bearing	0.028	kg
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