



Bearing No. S7204 ACD/P4A

D	47 mm
d	20 mm
B	14 mm
C	14 mm
a	15 mm
d2	29,1 mm
D1	38,7 mm
d1	29,1 mm
dh	31,1 mm
D2	40,9 mm
Weight	0,1 Kg
db min	25,6 mm
Db max	44,6 mm
ra max.	1 mm
Da max.	41,4 mm
da min.	25,6 mm
r2 min.	1 mm
r4 min.	0,3 mm
r3 min.	0,3 mm
r1 min.	1 mm
rb max.	0,3 mm
Size (mm)	20x47x14
Width (mm)	14
Mass bearing	0.11 kg
d ₁	29.1 mm
D ₂	40.9 mm
d ₂	29.1 mm
Bearing number	S7204 ACD/P4A
Number of balls z	11
d _a max.	28.5 mm

r_b max.	0.3 mm
r_a max.	1 mm
D_b max.	44.6 mm
D_a max.	41.4 mm
d_b max.	28.5 mm
d_b min.	25.6 mm
d_a min.	25.6 mm
Bore Diameter (mm)	20
Outer Diameter (mm)	47
$r_{3,4}$ min.	0.3 mm
$r_{1,2}$ min.	1 mm
Calculation factor f	1.03
Calculation factor e	0.68
Fatigue load limit (Pu)	0,236
(Oil) Lubrication Speed	48 000 r/min
(Grease) Lubrication Speed	32 000 r/min
Ball diameter D_w	7.938 mm
Basic dynamic load rating C	11.4 kN
Basic static load rating (C0)	5,6 kN
Preload class A G_A	70 N
Preload class B G_B	140 N
Preload class C G_C	280 N
Preload class D G_D	560 N
Basic dynamic load rating (C)	11,4 kN
Fatigue load limit P_u	0.236 kN
Calculation factor f_1	0.99
Calculation factor f_{2B}	1.01
Calculation factor f_{HC}	1
Calculation factor f_{2D}	1.05

Calculation factor f_{2C}	1.02
Calculation factor f_{2A}	1
Basic static load rating C_0	5.6 kN
Attainable speed for grease lubrication	32000 r/min
Static axial stiffness, preload class D	135 N/ μ m
Static axial stiffness, preload class C	102 N/ μ m
Static axial stiffness, preload class B	79 N/ μ m
Static axial stiffness, preload class A	61 N/ μ m
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