



Bearing No. S7009 FW/HC

D	75 mm
d	45 mm
B	16 mm
a	17.7 mm
Ball - z	21
Size (mm)	75x45x16
Width (mm)	16
Mass bearing	0.23 kg
D ₂	66.85 mm
d ₂	53.6 mm
d ₁	55.7 mm
d ₂	53.6 mm
D ₂	66.85 mm
d ₁	55.7 mm
Bearing number	S7009 FW/HC
Number of balls z	21
d _a min.	49.6 mm
r _b max.	0.6 mm
r _a max.	1 mm
D _b max.	70.8 mm
D _a max.	70.4 mm
d _b max.	53 mm
d _b min.	49.6 mm
d _a max.	55.1 mm
Bore Diameter (mm)	75
Outer Diameter (mm)	45
Calculation factor e	0.57
d _b - min.	49.6 mm
r _{3,4} min.	0.6 mm
r _{1,2} min.	1 mm

d_a - max.	55.1 mm
D_b - max.	70.8 mm
d_b - max.	53 mm
d_a - min.	49.6 mm
Ball - D_w	7.144 mm
D_a - max.	70.4 mm
r_b - max.	0.6 mm
r_a - max.	1 mm
$r_{1,2}$ - min.	1 mm
$r_{3,4}$ - min.	0.6 mm
Calculation factor - e	0.57
Basic dynamic load rating C	12.7 kN
Ball diameter D_w	7.144 mm
Basic dynamic load rating - C	12.7 kN
Fatigue load limit P_u	0.355 kN
Calculation factor - X_2	0.7
Calculation factor - Y_1	1.09
Fatigue load limit - P_u	0.355 kN
Calculation factor - Y_2	1.63
Calculation factor - Y_0	0.84
Limiting speed for grease lubrication	28000 r/min
Basic static load rating C_0	8.5 kN
Attainable speed for grease lubrication	28000 r/min
Basic static load rating - C_0	8.5 kN
Calculation factor (single, tandem) Y_2	1
Calculation factor	0.42

(single, tandem) Y_0	
Calculation factor (single, tandem) X_2	0.43
Calculation factor (back-to-back, face-to-face) Y_1	1.09
Calculation factor (back-to-back, face-to-face) Y_2	1.63
Calculation factor (back-to-back, face-to-face) Y_0	0.84
Calculation factor (back-to-back, face-to-face) X_2	0.7