



Bearing No. S7005 FW/HC

D	47 mm
d	25 mm
B	12 mm
a	11.7 mm
Ball - z	14
Size (mm)	47x25x12
Width (mm)	12
Mass bearing	0.068 kg
D ₂	41.5 mm
d ₂	29.8 mm
d ₁	31.6 mm
d ₂	29.8 mm
D ₂	41.5 mm
d ₁	31.6 mm
Bearing number	S7005 FW/HC
Number of balls z	14
d _a min.	28.2 mm
r _b max.	0.3 mm
r _a max.	0.6 mm
D _b max.	44.6 mm
D _a max.	43.8 mm
d _b max.	29.4 mm
d _b min.	28.2 mm
d _a max.	31.2 mm
Bore Diameter (mm)	47
Outer Diameter (mm)	25
Calculation factor e	0.57
d _b - min.	28.2 mm
r _{3,4} min.	0.3 mm
r _{1,2} min.	0.6 mm

d_a - max.	31.2 mm
D_b - max.	44.6 mm
d_b - max.	29.4 mm
d_a - min.	28.2 mm
Ball - D_w	6.35 mm
D_a - max.	43.8 mm
r_b - max.	0.3 mm
r_a - max.	0.6 mm
$r_{1,2}$ - min.	0.6 mm
$r_{3,4}$ - min.	0.3 mm
Calculation factor - e	0.57
Basic dynamic load rating C	8.19 kN
Ball diameter D_w	6.35 mm
Basic dynamic load rating - C	8.2 kN
Fatigue load limit P_u	0.173 kN
Calculation factor - X_2	0.7
Calculation factor - Y_1	1.09
Fatigue load limit - P_u	0.173 kN
Calculation factor - Y_2	1.63
Calculation factor - Y_0	0.84
Limiting speed for grease lubrication	49000 r/min
Basic static load rating C_0	4.05 kN
Attainable speed for grease lubrication	49000 r/min
Basic static load rating - C_0	4 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