



YYH Bearing&Drivetrain Co., Ltd.

Lubrication	
Limiting speed for oil lubrication	19000 mm/min
Ball - D_w	7.144 mm
Ball - z	32
G_{ref}	3.1 cm ³
Calculation factor - f_0	17.3
Preload class A - G_A	117 N
Preload class B - G_B	355 N
Preload class C - G_C	710 N
Calculation factor - f	1.36
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.1
Calculation factor - f_{2C}	1.18
Calculation factor - f_{HC}	1.02
Preload class A	94 N/micron
Preload class B	164 N/micron
Preload class C	242 N/micron
d_1	103.2 mm
d_2	103.2 mm
D_1	112.1 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	99.6 mm
d_b min.	99.6 mm
D_a max.	115.4 mm
D_b max.	118 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	104.1 mm



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Basic dynamic load rating C	22.1 kN
Basic static load rating C_0	27.5 kN
Fatigue load limit P_u	1.12 kN
Attainable speed for grease lubrication	12000 r/min
Attainable speed for oil-air lubrication	19000 r/min
Ball diameter D_w	7.144 mm
Number of balls z	32
Reference grease quantity G_{ref}	3.1 cm ³
Preload class A G_A	117 N
Static axial stiffness, preload class A	94 N/ μ m
Preload class B G_B	355 N
Static axial stiffness, preload class B	164 N/ μ m
Preload class C G_C	710 N
Static axial stiffness, preload class C	242 N/ μ m
Calculation factor f	1.36
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.1
Calculation factor f_{2C}	1.18
Calculation factor f_{HC}	1.02
Calculation factor f_0	17.3
Mass bearing	0.26 kg