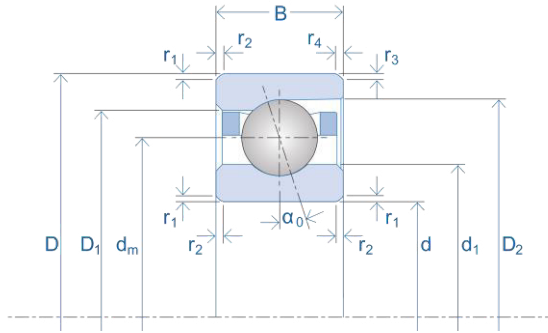


Part Number	HY S 6006 C TA
Bearing Size	6006

Bearing Series	S
Hybrid (Si ₃ N ₄ Balls)	Yes

Bearing Dimensions

Bore Diameter	d [mm]	30
Outer Diameter	D [mm]	55
Bearing Width	B [mm]	13
Pitch Circle	d _m [mm]	42.5
Ball Diameter	D _w [mm]	7.144
OD Inner Ring	d ₁ [mm]	38.1
ID Outer Ring	D ₁ [mm]	47.0
ID Outer Ring (Open Side)	D ₂ [mm]	49.5
Chamfer	r _{1,2} [mm]	1.0
Chamfer (Open Side)	r _{3,4} [mm]	0.6

Geometrical Data

Number of Balls	Z [Qty.]	16
Contact Angle	α ₀ [°]	15
Bearing Weight	m [kg]	0.112

Mating Part Dimensions

Abutment Diameter Inner Ring	d _a min. [mm]	36.0
Abutment Diameter Outer Ring	D _a max. [mm]	49.0
Chamfer Associated Component	r _a max. [mm]	1.0
Chamfer Associated Component (Open Side)	r _b max. [mm]	0.3

Bearing Load Ratings

Dynamic Radial Load Rating	C [N]	16,500
Static Radial Load Rating Steel Balls	C ₀ [N]	11,900
Static Radial Load Rating Si ₃ N ₄ balls	C ₀ HY [N]	8,400

Bearing RPM Ratings

Speed Value with Oil Lubrication	n _{oil} [1/min]	50,000
Speed Value with Grease Lubrication	n _{grease} [1/min]	37,500

Bearing Preload Data

Light Pre-Load	F _v [N]	85
Light Axial Rigidity	C _{ax} [N/μm]	43
Medium Pre-Load	F _v [N]	250
Medium Axial Rigidity	C _{ax} [N/μm]	72
Heavy Pre-Load	F _v [N]	500
Heavy Axial Rigidity	C _{ax} [N/μm]	105
Minimum Spring Pre-Load	F _r [N]	425

Notes:

1. Position of the oiling Nozzle (d_r) for bearings with TA cage/ TXM cage upon request
2. The stated load and speed values are given for a spring preloaded single bearing with oil/air or oil mist lubrication. If specific applications differ, please consult correction factors and/or GMN USA engineers.