



Part Number	HY S 6201 E TA
Bearing Size	6201

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

Bearing Dimensions

Bore Diameter	d [mm]	12
Outer Diameter	D [mm]	32
Bearing Width	B [mm]	10
Pitch Circle	d _m [mm]	22.0
Ball Diameter	D _w [mm]	5.953
OD Inner Ring	d ₁ [mm]	18.3
ID Outer Ring	D ₁ [mm]	26.0
ID Outer Ring (Open Side)	D ₂ [mm]	27.9
Chamfer	r _{1,2} [mm]	0.6
Chamfer (Open Side)	r _{3,4} [mm]	0.6

Geometrical Data

Number of Balls	Z [Qty.]	10
Contact Angle	α ₀ [°]	25
Bearing Weight	m [kg]	0.037

Mating Part Dimensions

Abutment Diameter Inner Ring	d _a min. [mm]	16.5
Abutment Diameter Outer Ring	D _a max. [mm]	27.5
Chamfer Associated Component	r _a max. [mm]	0.6
Chamfer Associated Component (Open Side)	r _b max. [mm]	0.3

Bearing Load Ratings

Dynamic Radial Load Rating	C [N]	8,000
Static Radial Load Rating Steel Balls	C ₀ [N]	4,050
Static Radial Load Rating Si ₃ N ₄ balls	C _{0 HY} [N]	2,850

Bearing Preload Data

Light Pre-Load	F _v [N]	70
Light Axial Rigidity	C _{ax} [N/μm]	56
Medium Pre-Load	F _v [N]	200
Medium Axial Rigidity	C _{ax} [N/μm]	84
Heavy Pre-Load	F _v [N]	400
Heavy Axial Rigidity	C _{ax} [N/μm]	112
Minimum Spring Pre-Load	F _r [N]	290

Bearing RPM Ratings

Speed Value with Oil Lubrication	n _{oil} [1/min]	82,500
Speed Value with Grease Lubrication	n _{grease} [1/min]	61,250

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.