

Part Number	HY S 6008 E TA
Bearing Size	6008

Bearing Dimensions

Bore Diameter	d [mm]	40
Outer Diameter	D [mm]	68
Bearing Width	B [mm]	15
Pitch Circle	d _m [mm]	54.0
Ball Diameter	D _w [mm]	7.938
OD Inner Ring	d₁ [mm]	49.2
ID Outer Ring	D1 [mm]	59.0
ID Outer Ring (Open Side)	D ₂ [mm]	61.8
Chamfer	r _{1,2} [mm]	1.0
Chamfer (Open Side)	r _{3,4} [mm]	0.6

Bearing Load Ratings

Dynamic Radial Load Rating	C [N]	20,900
Static Radial Load Rating Steel Balls	C ₀ [N]	17,100
Static Radial Load Rating Si ₃ N ₄ balls	С _{0 НҮ} [N]	12,000

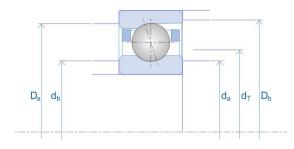
Bearing RPM Ratings

Speed Value with Oil Lubrication	n _{oil} [1/min]	33,750
Speed Value with Grease Lubrication	n _{grease} [1/min]	25,000

Notes:

1. Position of the oiling Nozzle (d_T) 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.



Bearing Series	S
Hybrid (Si₃N₄ Balls)	Yes

Geometrical Data

Number of Balls	Z [Qty.]	18
Contact Angle	α ₀ [°]	25
Bearing Weight	m [kg]	0.185

Mating Part Dimensions

Abutment Diameter Inner Ring	da min. [mm]	46.0
Abutment Diameter Outer Ring	Da max. [mm]	62.0
Chamfer Associated Component	r _a max. [mm]	1.0
Chamfer Associated Component (Open Side)	r₀ max. [mm]	0.3

Bearing Preload Data

Light Pre-Load	Fv [N]	180
Light Axial Rigidity	C _{ax} [N/µm]	125
Medium Pre-Load	F _v [N]	530
Medium Axial Rigidity	C _{ax} [N/µm]	190
Heavy Pre-Load	F _v [N]	1,100
Heavy Axial Rigidity	C _{ax} [N/µm]	265
Minimum Spring Pre-Load	F _f [N]	760