GMN BEARING USA

Part Number	S 61917 E TA
Bearing Size	61917

Bearing Series	S
Hybrid (Si$_3$N$_4$ Balls)	No

Bearing Dimensions

Bore Diameter	d [mm]	85
Outer Diameter	D [mm]	120
Bearing Width	B [mm]	18
Pitch Circle	d_m [mm]	102.5
Ball Diameter	D_w [mm]	10.319
OD Inner Ring	d_1 [mm]	96.2
ID Outer Ring	D_1 [mm]	108.8
ID Outer Ring (Open Side)	D_2 [mm]	112.9
Chamfer	$r_{1,2}$ [mm]	0.6
Chamfer (Open Side)	$r_{3,4}$ [mm]	0.6

Geometrical Data

Number of Balls	Z [Qty.]	25
Contact Angle	α_0 [°]	25
Bearing Weight	m [kg]	0.540

Mating Part Dimensions

Abutment Diameter Inner Ring	d_a min. [mm]	92.0
Abutment Diameter Outer Ring	D_a max. [mm]	114.0
Chamfer Associated Component	r_a max. [mm]	0.6
Chamfer Associated Component (Open Side)	r_b max. [mm]	0.6

Bearing Load Ratings

Dynamic Radial Load Rating	C [N]	37,500
Static Radial Load Rating Steel Balls	C_0 [N]	40,500
Static Radial Load Rating Si$_3$N$_4$ balls	$C_{0\,HY}$ [N]	28,500

Bearing Preload Data

Light Pre-Load	F_v [N]	320
Light Axial Rigidity	C_{ax} [N/µm]	210
Medium Pre-Load	F_v [N]	960
Medium Axial Rigidity	C_{ax} [N/µm]	320
Heavy Pre-Load	F_v [N]	1,910
Heavy Axial Rigidity	C_{ax} [N/µm]	420
Minimum Spring Pre-Load	F_f [N]	1,360

Bearing RPM Ratings

Speed Value with Oil Lubrication	n_{oil} [1/min]	14,000
Speed Value with Grease Lubrication	n_{grease} [1/min]	10,500

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.