



Part Number	S 61919 C TA
Bearing Size	61919

Bearing Series	S
Hybrid (Si ₃ N ₄ Balls)	No

Bearing Dimensions

Bore Diameter	d [mm]	95
Outer Diameter	D [mm]	130
Bearing Width	B [mm]	18
Pitch Circle	d _m [mm]	112.5
Ball Diameter	D _w [mm]	10.319
OD Inner Ring	d ₁ [mm]	106.2
ID Outer Ring	D ₁ [mm]	118.8
ID Outer Ring (Open Side)	D ₂ [mm]	122.9
Chamfer	r _{1,2} [mm]	0.6
Chamfer (Open Side)	r _{3,4} [mm]	0.6

Geometrical Data

Number of Balls	Z [Qty.]	27
Contact Angle	α ₀ [°]	15
Bearing Weight	m [kg]	0.590

Mating Part Dimensions

Abutment Diameter Inner Ring	d _a min. [mm]	102.0
Abutment Diameter Outer Ring	D _a max. [mm]	124.0
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]	41,000
Static Radial Load Rating Steel Balls	C ₀ [N]	47,000
Static Radial Load Rating Si ₃ N ₄ balls	C _{0HY} [N]	33,000

Bearing Preload Data

Light Pre-Load	F _v [N]	210
Light Axial Rigidity	C _{ax} [N/μm]	93
Medium Pre-Load	F _v [N]	630
Medium Axial Rigidity	C _{ax} [N/μm]	150
Heavy Pre-Load	F _v [N]	1,250
Heavy Axial Rigidity	C _{ax} [N/μm]	209
Minimum Spring Pre-Load	F _r [N]	1,050

Bearing RPM Ratings

Speed Value with Oil Lubrication	n _{oil} [1/min]	15,000
Speed Value with Grease Lubrication	n _{grease} [1/min]	11,000

Notes:

1. Position of the oiling Nozzle (dT) 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.