

Part Number	S 619/5 C TA
Bearing Size	619/5

## **Bearing Dimensions**

Bore Diameter	d [mm]	5
Outer Diameter	D [mm]	13
Bearing Width	B [mm]	4
Pitch Circle	d <sub>m</sub> [mm]	9.0
Ball Diameter	D <sub>w</sub> [mm]	2.381
OD Inner Ring	d₁ [mm]	7.1
ID Outer Ring	D1 [mm]	10.7
ID Outer Ring (Open Side)	D <sub>2</sub> [mm]	11.3
Chamfer	r <sub>1,2</sub> [mm]	0.2
Chamfer (Open Side)	r <sub>3,4</sub> [mm]	0.2

# **Bearing Load Ratings**

Dynamic Radial Load Rating	C [N]	1,200
Static Radial Load Rating Steel Balls	C <sub>0</sub> [N]	430
Static Radial Load Rating Si <sub>3</sub> N <sub>4</sub> balls	С <sub>0 НҮ</sub> [N]	300

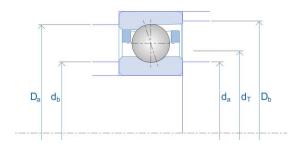
#### **Bearing RPM Ratings**

Speed Value with Oil Lubrication	n <sub>oil</sub> [1/min]	190,000
Speed Value with Grease Lubrication	n <sub>grease</sub> [1/min]	140,000

### Notes:

1. Position of the oiling Nozzle  $(d_{\rm T})$  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)	No

#### **Geometrical Data**

Number of Balls	Z [Qty.]	8
Contact Angle	α <sub>0</sub> [°]	15
Bearing Weight	m [kg]	0.002

#### Mating Part Dimensions

Abutment Diameter Inner Ring	da min. [mm]	6.8
Abutment Diameter Outer Ring	Da max. [mm]	11.2
Chamfer Associated Component	r <sub>a</sub> max. [mm]	0.2
Chamfer Associated Component (Open Side)	r₀ max. [mm]	0.1

### **Bearing Preload Data**

Light Pre-Load	Fv [N]	6
Light Axial Rigidity	C <sub>ax</sub> [N/µm]	7
Medium Pre-Load	F <sub>v</sub> [N]	18
Medium Axial Rigidity	C <sub>ax</sub> [N/µm]	11
Heavy Pre-Load	F <sub>v</sub> [N]	36
Heavy Axial Rigidity	C <sub>ax</sub> [N/µm]	15
Minimum Spring Pre-Load	F <sub>f</sub> [N]	35