

Part Number	HY S 619/7 C TA
Bearing Size	619/7

## **Bearing Dimensions**

Bore Diameter	d [mm]	7
Outer Diameter	D [mm]	17
Bearing Width	B [mm]	5
Pitch Circle	d <sub>m</sub> [mm]	12.0
Ball Diameter	D <sub>w</sub> [mm]	2.381
OD Inner Ring	d₁ [mm]	10.0
ID Outer Ring	D1 [mm]	13.6
ID Outer Ring (Open Side)	D <sub>2</sub> [mm]	14.1
Chamfer	r <sub>1,2</sub> [mm]	0.3
Chamfer (Open Side)	r <sub>3,4</sub> [mm]	0.3

# **Bearing Load Ratings**

Dynamic Radial Load Rating	C [N]	1,510
Static Radial Load Rating Steel Balls	C <sub>0</sub> [N]	655
Static Radial Load Rating Si <sub>3</sub> N <sub>4</sub> balls	С <sub>0 НҮ</sub> [N]	460

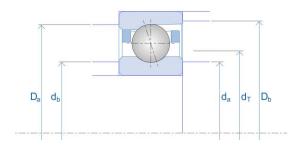
## **Bearing RPM Ratings**

Speed Value with Oil Lubrication	n <sub>oil</sub> [1/min]	181,250
Speed Value with Grease Lubrication	n <sub>grease</sub> [1/min]	137,500

#### 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 (Si <sub>3</sub> N <sub>4</sub> Balls)	Yes

#### **Geometrical Data**

Number of Balls	Z [Qty.]	11
Contact Angle	α₀ [°]	15
Bearing Weight	m [kg]	0.005

### Mating Part Dimensions

Abutment Diameter Inner Ring	d₂ min. [mm]	9.0
Abutment Diameter Outer Ring	Da max. [mm]	15.0
Chamfer Associated Component	r <sub>a</sub> max. [mm]	0.3
Chamfer Associated Component (Open Side)	r₀ max. [mm]	0.1

# **Bearing Preload Data**

Light Pre-Load	Fv [N]	8
Light Axial Rigidity	C <sub>ax</sub> [N/µm]	9
Medium Pre-Load	F <sub>v</sub> [N]	23
Medium Axial Rigidity	C <sub>ax</sub> [N/µm]	15
Heavy Pre-Load	F <sub>v</sub> [N]	46
Heavy Axial Rigidity	C <sub>ax</sub> [N/µm]	21
Minimum Spring Pre-Load	F <sub>f</sub> [N]	40