

Part Number	HY S 6016 C TA
Bearing Size	6016

## **Bearing Dimensions**

Bore Diameter	d [mm]	80
Outer Diameter	D [mm]	125
Bearing Width	B [mm]	22
Pitch Circle	d <sub>m</sub> [mm]	102.5
Ball Diameter	D <sub>w</sub> [mm]	13.494
OD Inner Ring	d₁ [mm]	94.3
ID Outer Ring	D1 [mm]	110.7
ID Outer Ring (Open Side)	D <sub>2</sub> [mm]	116.1
Chamfer	r <sub>1,2</sub> [mm]	1.1
Chamfer (Open Side)	r <sub>3,4</sub> [mm]	0.6

# **Bearing Load Ratings**

Dynamic Radial Load Rating	C [N]	60,000
Static Radial Load Rating Steel Balls	C <sub>0</sub> [N]	58,000
Static Radial Load Rating Si <sub>3</sub> N <sub>4</sub> balls	С <sub>0 НҮ</sub> [N]	41,000

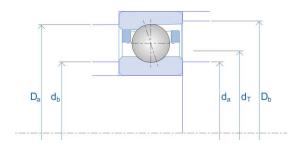
#### **Bearing RPM Ratings**

Speed Value with Oil Lubrication	n <sub>oil</sub> [1/min]	20,625
Speed Value with Grease Lubrication	n <sub>grease</sub> [1/min]	15,625

### 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.]	20
Contact Angle	α <sub>0</sub> [°]	15
Bearing Weight	m [kg]	0.840

### Mating Part Dimensions

Abutment Diameter Inner Ring	da min. [mm]	88.0
Abutment Diameter Outer Ring	Da max. [mm]	117.0
Chamfer Associated Component	r <sub>a</sub> max. [mm]	1.1
Chamfer Associated Component (Open Side)	r₀ max. [mm]	0.6

# **Bearing Preload Data**

Light Pre-Load	Fv [N]	310
Light Axial Rigidity	C <sub>ax</sub> [N/µm]	98
Medium Pre-Load	F <sub>v</sub> [N]	920
Medium Axial Rigidity	C <sub>ax</sub> [N/µm]	159
Heavy Pre-Load	F <sub>v</sub> [N]	1,830
Heavy Axial Rigidity	C <sub>ax</sub> [N/µm]	224
Minimum Spring Pre-Load	F <sub>f</sub> [N]	1,540