



Part Number	HY 6001	
Bearing Series	Radial	
Hybrid (Si ₃ N ₄ Balls)	Yes	

Geometrical Data

Number of Balls	Z [Qty.]	8
Bearing Weight	m [kg]	0.022

Bearing Load Ratings¹

Dynamic Radial Load Rating	C [N]	4,850
Static Radial Load Rating Steel Balls	C ₀ [N]	2,210
Static Radial Load Rating Si ₃ N ₄ balls	C _{0HY} [N]	1,560

Bearing RPM Ratings²

Speed Value with Oil Lubrication	n _{oil} [1/min]	87,188
Speed Value with Grease Lubrication	n _{grease} [1/min]	69,750

Bearing Dimensions

Bore Diameter	d [mm]	12
Outer Diameter	D [mm]	28
Bearing Width	B [mm]	8
Pitch Circle	d _m [mm]	20.0
Ball Diameter	D _w [mm]	4.762
OD Inner Ring	d ₁ [mm]	16.6
ID Outer Ring	D ₁ [mm]	23.4
Chamfer	r _{1,2} [mm]	0.3

Mating Part Dimensions

Abutment Diameter Inner Ring	d _a min. [mm]	14.5
Abutment Diameter Outer Ring	D _a max. [mm]	25.0
Chamfer Associated Component	r _a max. [mm]	0.3

Notes:

1. The stated load ratings are given for a single bearing with grease lubrication. If specific applications differ, please consult GMN USA engineers.
2. Speed ratings are for phenolic outer land guided cage (TA). Please consult the full GMN Bearing catalog or GMN USA engineers for speed ratings of different cages.