



Part Number	HY 6208	
Bearing Series	Radial	
Hybrid (Si ₃ N ₄ Balls)	Yes	

Geometrical Data

Number of Balls	Z [Qty.]	9
Bearing Weight	m [kg]	0.402

Bearing Load Ratings¹

Dynamic Radial Load Rating	C [N]	29,500
Static Radial Load Rating Steel Balls	C ₀ [N]	18,000
Static Radial Load Rating Si ₃ N ₄ balls	C _{0HY} [N]	12,700

Bearing RPM Ratings²

Speed Value with Oil Lubrication	n _{oil} [1/min]	28,125
Speed Value with Grease Lubrication	n _{grease} [1/min]	22,500

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.

Bearing Dimensions

Bore Diameter	d [mm]	40
Outer Diameter	D [mm]	80
Bearing Width	B [mm]	18
Pitch Circle	d _m [mm]	60.0
Ball Diameter	D _w [mm]	11.906
OD Inner Ring	d ₁ [mm]	52.8
ID Outer Ring	D ₁ [mm]	67.6
Chamfer	r _{1,2} [mm]	1.0

Mating Part Dimensions

Abutment Diameter Inner Ring	d _a min. [mm]	48.0
Abutment Diameter Outer Ring	D _a max. [mm]	72.0
Chamfer Associated Component	r _a max. [mm]	1.0