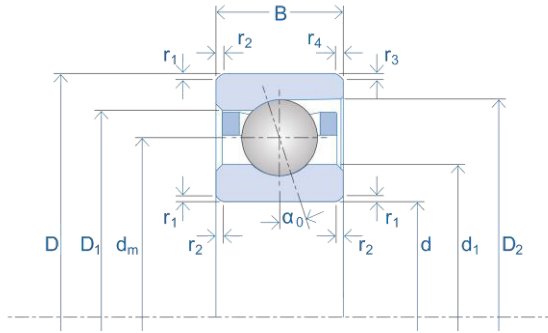


Part Number	S 6018 C TA
Bearing Size	6018

Bearing Series	S
Hybrid (Si ₃ N ₄ Balls)	No

Bearing Dimensions

Bore Diameter	d [mm]	90
Outer Diameter	D [mm]	140
Bearing Width	B [mm]	24
Pitch Circle	d _m [mm]	115.0
Ball Diameter	D _w [mm]	15.081
OD Inner Ring	d ₁ [mm]	105.8
ID Outer Ring	D ₁ [mm]	124.2
ID Outer Ring (Open Side)	D ₂ [mm]	130.1
Chamfer	r _{1,2} [mm]	1.5
Chamfer (Open Side)	r _{3,4} [mm]	0.6

Geometrical Data

Number of Balls	Z [Qty.]	20
Contact Angle	α ₀ [°]	15
Bearing Weight	m [kg]	1.150

Mating Part Dimensions

Abutment Diameter Inner Ring	d _a min. [mm]	100.0
Abutment Diameter Outer Ring	D _a max. [mm]	131.0
Chamfer Associated Component	r _a max. [mm]	1.5
Chamfer Associated Component (Open Side)	r _b max. [mm]	0.6

Bearing Load Ratings

Dynamic Radial Load Rating	C [N]	74,500
Static Radial Load Rating Steel Balls	C ₀ [N]	74,000
Static Radial Load Rating Si ₃ N ₄ balls	C _{0 HY} [N]	52,000

Bearing RPM Ratings

Speed Value with Oil Lubrication	n _{oil} [1/min]	15,000
Speed Value with Grease Lubrication	n _{grease} [1/min]	11,000

Bearing Preload Data

Light Pre-Load	F _v [N]	380
Light Axial Rigidity	C _{ax} [N/μm]	110
Medium Pre-Load	F _v [N]	1,130
Medium Axial Rigidity	C _{ax} [N/μm]	179
Heavy Pre-Load	F _v [N]	2,270
Heavy Axial Rigidity	C _{ax} [N/μm]	255
Minimum Spring Pre-Load	F _r [N]	1,900

Notes:

1. Position of the oiling Nozzle (dT) 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.