

Spindle ball bearing S 6022 C TA P4+

08.05.2024



Components

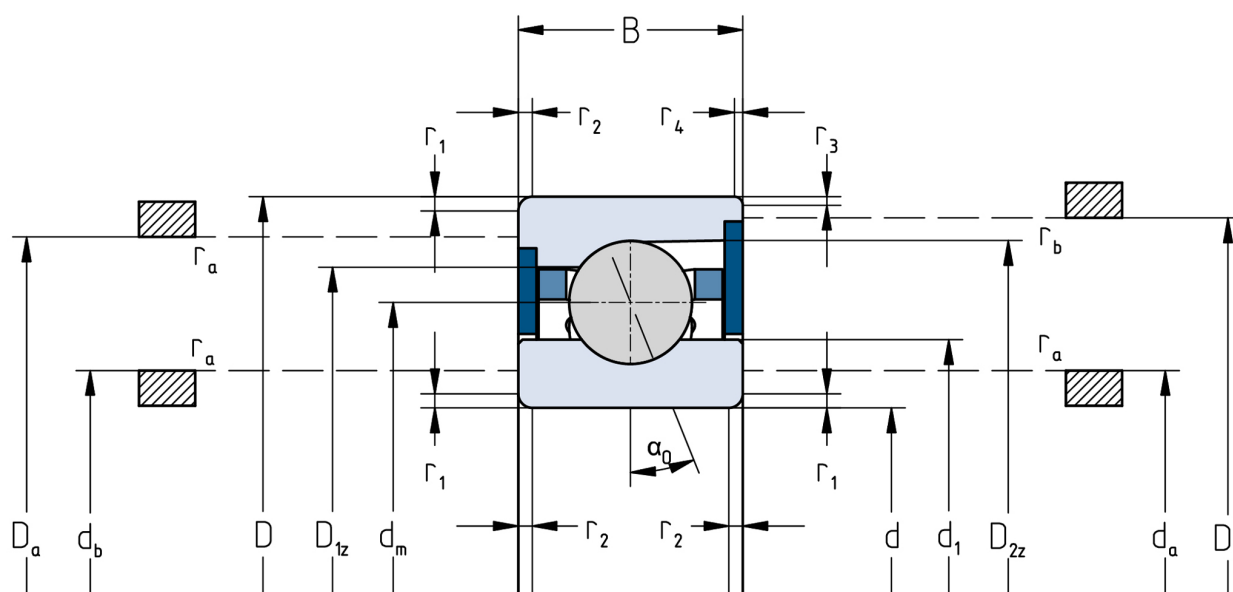
Bearing designation:	S 6022 C TA
Bearing design:	S
Series / size:	6022
Ball material:	Steel 100Cr6
Cage:	TA
Seal:	2RZ upon request
Precision:	P4+
Main dimensions [d x D x B]:	110 x 170 x 28 mm

Load data

Static load capacity	C_{0r} : 106000 N
Dynamic load capacity	C_r : 99000 N
Fatigue load limit	C_U : 4644 N
Speed limit	n_{grease} : 9000 1/min
Speed limit	n_{oil} : 12000 1/min
Light preload	L: 500 N
Axial rigidity	C_{ax} : 129 N/μm
Medium preload	M: 1510 N
Axial rigidity	C_{ax} : 211 N/μm
Heavy preload	S: 3020 N
Axial rigidity	C_{ax} : 298 N/μm
Spring preload	Ff: 5060 N (for n_{max})

Geometrical Data

Bore diameter	d: 110 mm	Oiling nozzle position	d_T : 134.9 mm
Outer diameter	D: 170 mm	Pitch circle diameter	d_m : 140 mm
Width of single bearing	B: 28 mm	Inner diameter of outer ring	D_1 : 150.6 mm
Ball diameter	D_w : 17.462 mm	Undercut of associated component	$r_{a \max}$: 2 mm
Number of balls	Z: 21	Undercut of associated component (open side)	$r_{b \max}$: 1 mm
Chamfer (min)	$r_{1,2 \min}$: 2 mm	Abutment diameter inner ring	$d_{a,b \min}$: 121.3 mm
Chamfer (min), open side	$r_{3,4 \min}$: 1 mm	Abutment diameter outer ring	$D_{a,b \max}$: 160.3 mm
Outer diameter of inner ring	d_1 : 129.4 mm	Inner diameter of outer ring (open side)	D_2 : 157.7 mm
Outer diameter of inner ring (open side)	d_2 : -	Bearing weight	m: 2 kg
		Contact angle	Alpha 0: 15°



The given speed limits apply to individual bearings with spring preload. Correction factors must be considered for all properties which deviate from this.