

Spindle ball bearing S 6213 E TA P4+

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Components

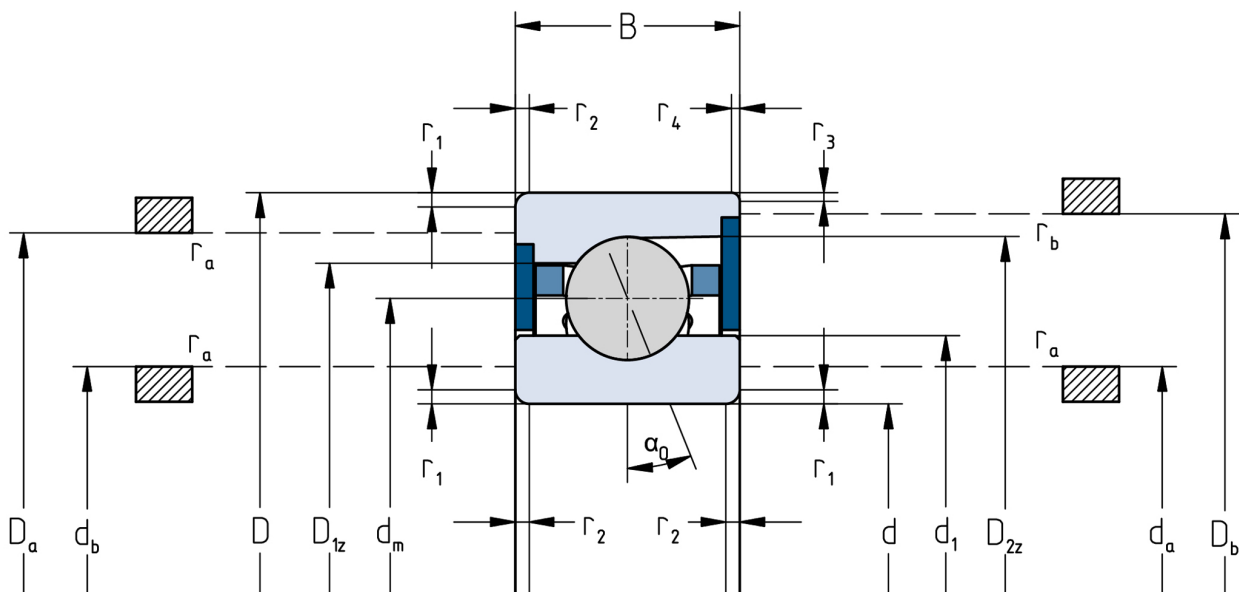
Bearing designation:	S 6213 E TA
Bearing design:	S
Series / size:	6213
Ball material:	Steel 100Cr6
Cage:	TA
Seal:	2RZ upon request
Precision:	P4+ (UP+ Upon request)
Main dimensions [d x D x B]:	65 x 120 x 23 mm

Load data

Static load capacity	C_{0r} : 59500 N
Dynamic load capacity	C_r : 69000 N
Fatigue load limit	C_U : 3083 N
Speed limit	n_{grease} : 11625 1/min
Speed limit	n_{oil} : 15500 1/min
Light preload	L: 590 N
Axial rigidity	C_{ax} : 228 N/ μ m
Medium preload	M: 1760 N
Heavy preload	C_{ax} : 347 N/ μ m
Axial rigidity	S: 3520 N
Spring preload	C_{ax} : 462 N/ μ m
	Ff: 5840 N (for n_{max})

Geometrical Data

Bore diameter	d: 65 mm	Oiling nozzle position	d_f : 88.3 mm
Outer diameter	D: 120 mm	Pitch circle diameter	d_m : 92.5 mm
Width of single bearing	B: 23 mm	Inner diameter of outer ring	D_1 : 102.3 mm
Ball diameter	D_w : 15.875 mm	Undercut of associated component	$r_{a max}$: 1.5 mm
Number of balls	Z: 16	Undercut of associated component (open side)	$r_{b max}$: 1 mm
Chamfer (min)	$r_{1,2 min}$: 1.5 mm	Abutment diameter inner ring	$d_{a,b min}$: 74.5 mm
Chamfer (min), open side	$r_{3,4 min}$: 1.1 mm	Abutment diameter outer ring	$D_{a,b max}$: 112.7 mm
Outer diameter of inner ring	d_1 : 82.8 mm	Inner diameter of outer ring (open side)	D_2 : 108.6 mm
Outer diameter of inner ring (open side)	d_2 : -	Bearing weight	m: 1.05 kg
		Contact angle	Alpha 0: 25°



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