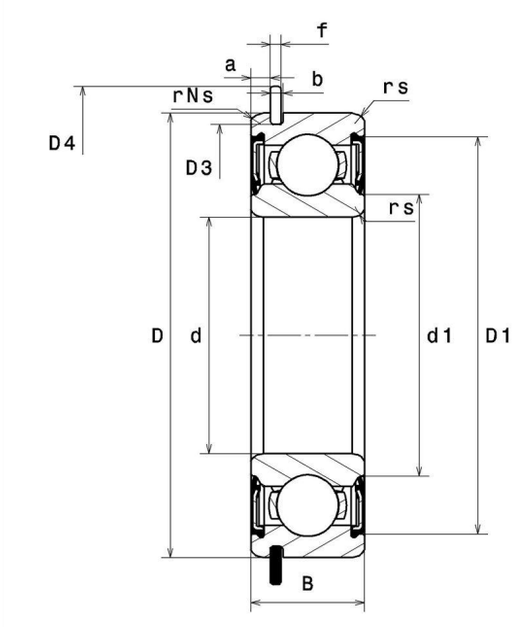
Technical data

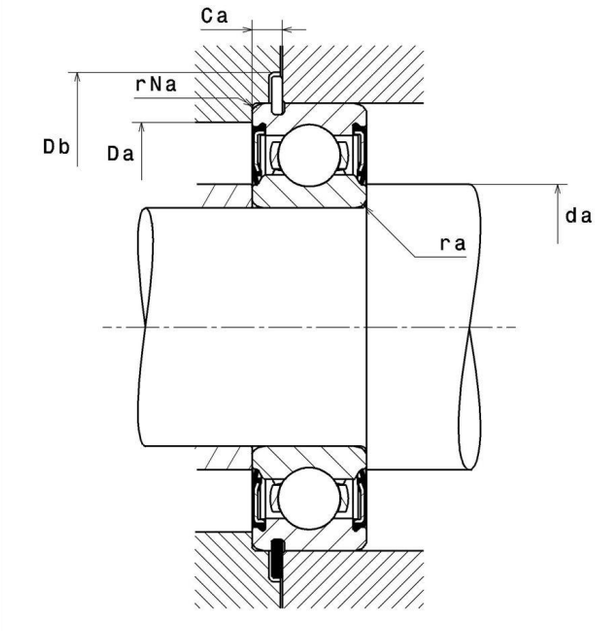
6305NREE

Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, snap ring & groove on outer diameter, contact seals on both sides

VISUAL (S)





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PRODUCT DIMENSIONS	
Internal diameter (d)	25 mm
External diameter (D)	62 mm
Bearing/Inner ring width (B)	17 mm
External diameter inner ring d1	33,6 mm
Inner diameter outer ring (D1)	52,6 mm
Min position Groove a min	3,07 mm
Max position groove a max	3,28 mm
Mini segment position Ca min	4,67 mm
Max segment position Ca max	4,98 mm
Min fillet radius (rs)	1,1 mm
Min fillet radius rNs	0,5 mm
Max bottom groove diameter D3	59,61 mm
Min groove width b min	1,9 mm
Max groove width b max	2,2 mm
Max bottom groove radius r0 max	0,6 mm
Max outside diameter of assembled stop ring D4 max	67,7 mm
Stop ring thickness f	1,65 mm
Snap ring reference	R62
Radial clearance class	CN
Mass	0,225 kg
Brand	SNR

PRODUCT PERFORMANCE	
Dynamic load (C)	23,5 kN

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PRODUCT PERFORMANCE	
Static load (C0)	12,1 kN
Fatigue limit load (Cu)	0,55 kN
Coefficient f0	12.2
Mechanical Limit Speed (Nlim)	8700 tr/min
Min operating temperature (Tmin)	-30 °C
Max operating temperature (Tmax)	120 °C

ABUTMENT	
Min shoulder diameter IR (da min)	31,5 mm
Max shoulder diameter IR (da max)	33,9 mm
Max shoulder diameter OR (Da max)	55,5 mm
Max shaft & housing fillet radius (ra max)	1 mm
Max fillet radius on segment side rNa max	0,5 mm
Min stop ring position diameter Db min	68,5 mm

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INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

P = X.Fr + Y.Fa

$\frac{f_0 F_a}{C_0}$	e	Fa / Fr ≤ e		Fa / Fr > e	
		X	Y	X	Y
0.172	0.19	1	0	0.56	2.3
0.345	0.22				1.99
0.689	0.26				1.71
1.03	0.28				1.55
1.38	0.3				1.45
2.07	0.34				1.31
3.45	0.38				1.15
5.17	0.42				1.04
6.89	0.44				1

Equivalent static radial load

Po = Xo.Fr + Yo.Fa

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

If Po <Fr, then use Po = Fr