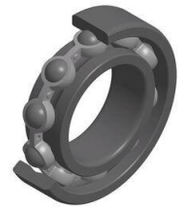


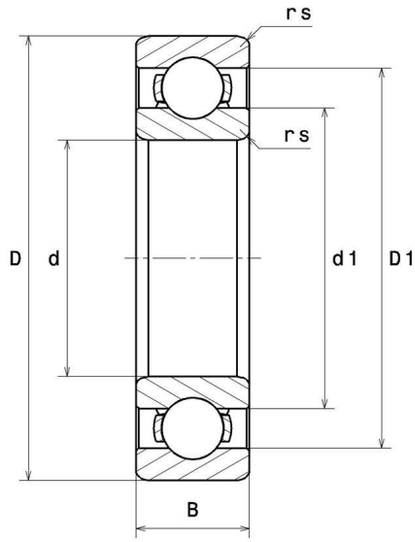
Technical data

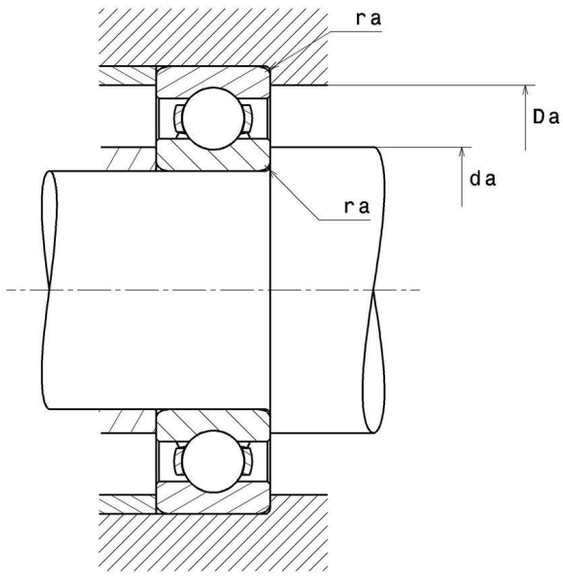
6305C3

Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, open

VISUAL (S)





6305C3
Single row deep groove ball bearings

PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	25 mm
D - External diameter	62 mm
B - Bearing/Inner ring width	17 mm
rs - Min fillet radius	1,1 mm
Radial clearance class	C3
Mass	0,232 kg

PRODUCT PERFORMANCE	
C - Dynamic load	23,5 kN
C0 - Static load	10,9 kN
Cu - Fatigue limit load	0,855 kN
f0 - Coefficient	12.6
Nlim - Oil lubrication limit speed	14000 tr/min
Nlim - Grease lubrication limit speed	12000 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C

ABUTMENT	
da min - Min shoulder diameter IR	31,5 mm
Da max - Max shoulder diameter OR	55,5 mm
ra max - Max shaft & housing fillet radius	1 mm

6305C3
Single row deep groove ball bearings

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