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

VISUAL (S)

6902
Single row deep groove ball bearings
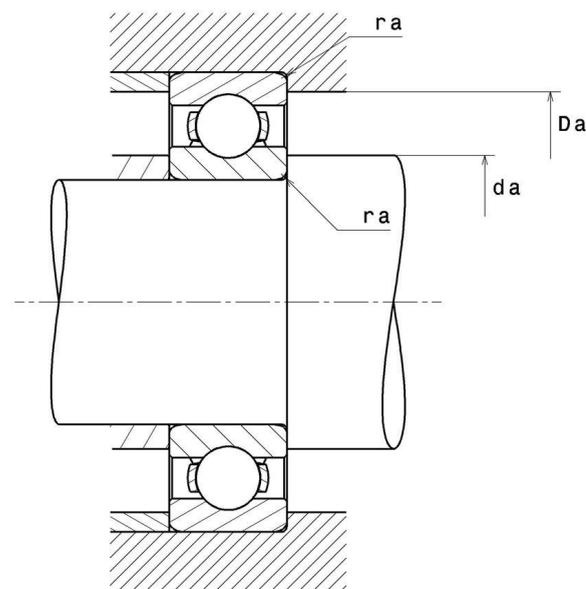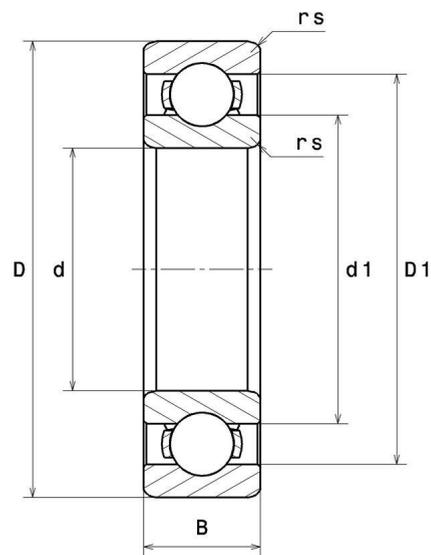
PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	15 mm
D - External diameter	28 mm
B - Bearing/Inner ring width	7 mm
rs - Min fillet radius	0,3 mm
Radial clearance class	CN
Mass	0,016 kg

PRODUCT PERFORMANCE	
C - Dynamic load	4050000 mN
C0 - Static load	2000000 mN
Cu - Fatigue limit load	157000 mN
f0 - Coefficient	14.8
N lim - Oil lubrication limit speed	168000 °/s
N lim - Grease lubrication limit speed	144000 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT	
da min - Min shoulder diameter IR	17 mm
Da max - Max shoulder diameter OR	26 mm
ra max - Max shaft & housing fillet radius	0,3 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$\dfrac{f_0 F_a}{C_0}$	e	$Fa/Fr \le e$		$Fa/Fr > e$	
		X	Y	X	Y
0.172	0.19				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	0	0.56	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