



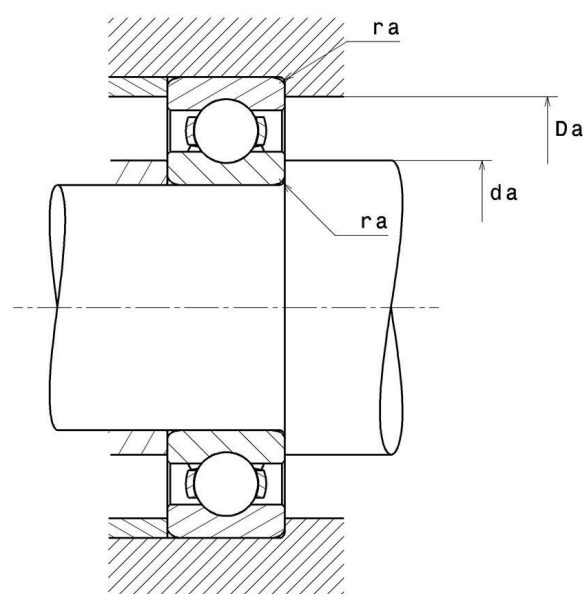
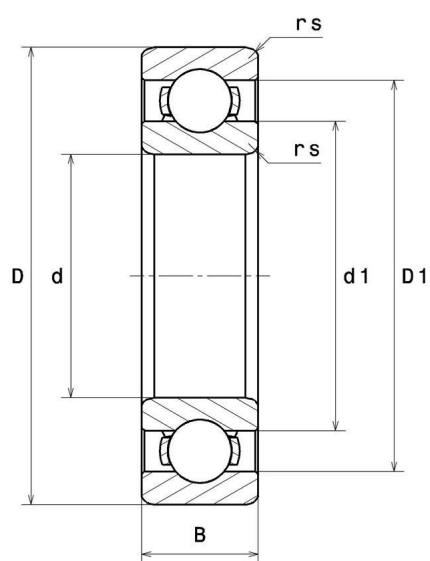
Technical data

16008C3

Single row deep groove ball bearings

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

VISUAL (S)



16008C3

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	40 mm
D - External diameter	68 mm
B - Bearing/Inner ring width	9 mm
rs - Min fillet radius	0,3 mm
Radial clearance class	C3
Mass	0,125 kg

PRODUCT PERFORMANCE

C - Dynamic load	14000000 mN
C0 - Static load	9650000 mN
Cu - Fatigue limit load	685000 mN
f0 - Coefficient	16
N lim - Oil lubrication limit speed	72000 °/s
N lim - Grease lubrication limit speed	60000 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	42 mm
Da max - Max shoulder diameter OR	66 mm
ra max - Max shaft & housing fillet radius	0,3 mm



NTN Europe

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INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$\frac{f_0 F_a}{C_0}$	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

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

If $P_0 < F_r$, then use $P_0 = F_r$



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