



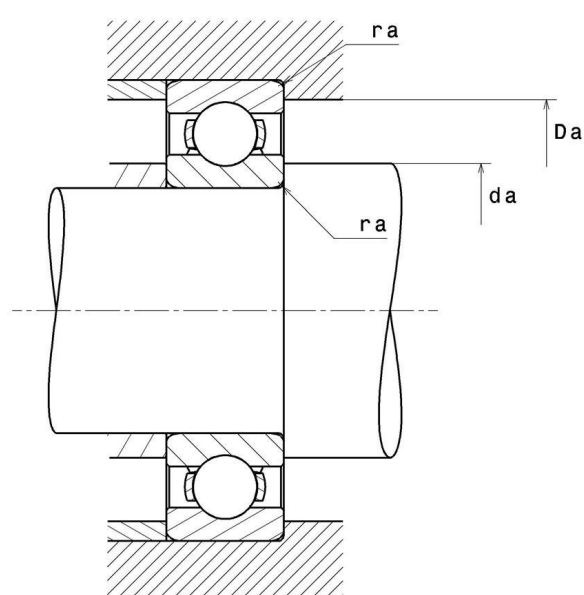
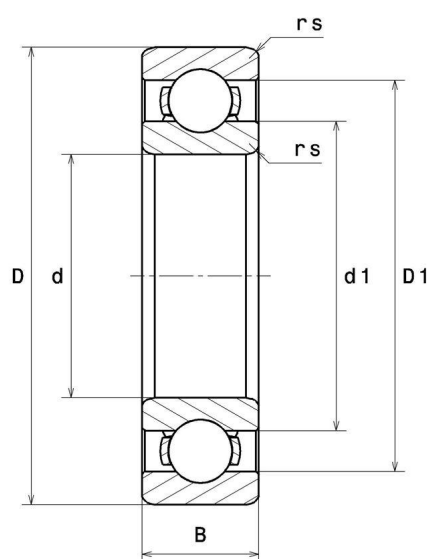
Technical data

16005C3

Single row deep groove ball bearings

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

VISUAL (S)



16005C3

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	25 mm
D - External diameter	47 mm
B - Bearing/Inner ring width	8 mm
rs - Min fillet radius	0,3 mm
Radial clearance class	C3
Mass	0,06 kg

PRODUCT PERFORMANCE

C - Dynamic load	9,25 kN
C0 - Static load	5,1 kN
Cu - Fatigue limit load	0,4 kN
f0 - Coefficient	15.1
Nlim - Oil lubrication limit speed	18000 tr/min
Nlim - Grease lubrication limit speed	15000 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C

ABUTMENT

da min - Min shoulder diameter IR	27 mm
Da max - Max shoulder diameter OR	45 mm
ra max - Max shaft & housing fillet radius	0,3 mm

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 P₀ <F_r, then use P₀ = F_r