



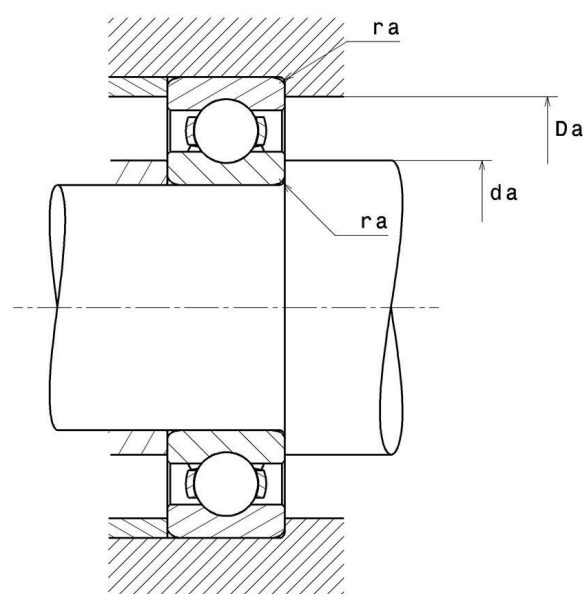
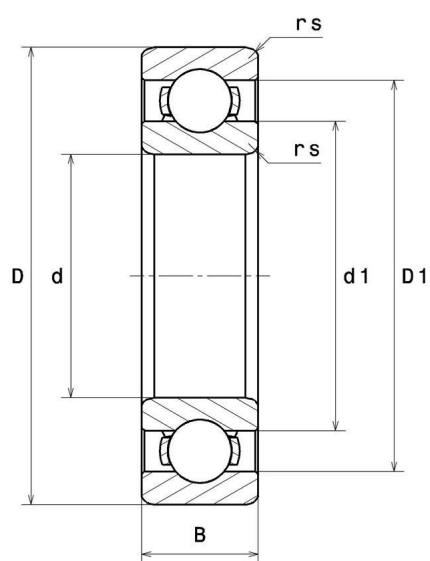
Technical data

16020.C3

Single row deep groove ball bearings

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

VISUAL (S)



16020.C3

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	100 mm
D - External diameter	150 mm
B - Bearing/Inner ring width	16 mm
rs - Min fillet radius	1 mm
Radial clearance class	C3
Mass	0,91 kg

PRODUCT PERFORMANCE

C - Dynamic load	39000000 mN
C0 - Static load	36500000 mN
Cu - Fatigue limit load	2180000 mN
f0 - Coefficient	16.4
N lim - Oil lubrication limit speed	30000 °/s
N lim - Grease lubrication limit speed	25200 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	105 mm
Da max - Max shoulder diameter OR	145 mm
ra max - Max shaft & housing fillet radius	1 mm

OE EQUIVALENTS

Manufacturer	Part number
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NTN Europe

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OE EQUIVALENTS

Manufacturer	Part number
ZF	0750.116.412

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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