



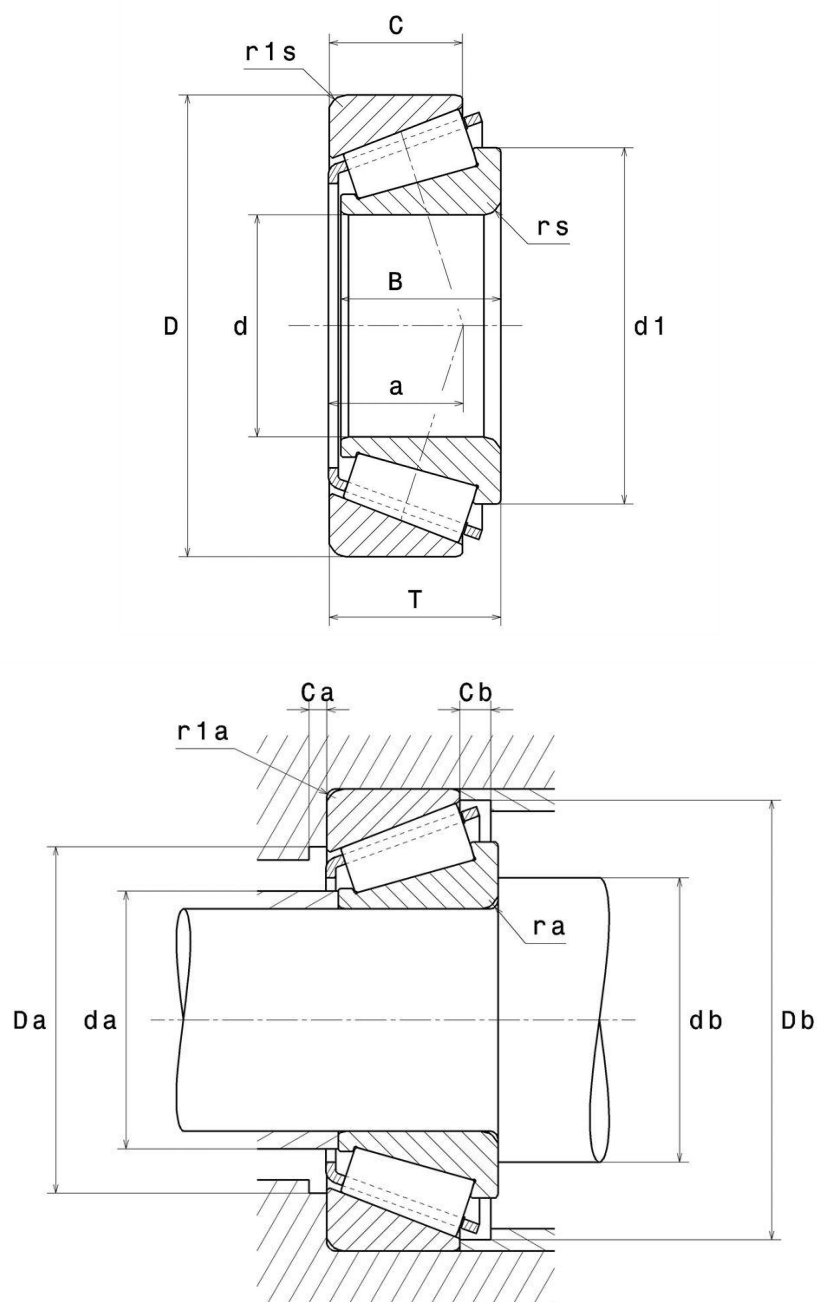
Technical data

4T-33211

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

VISUAL (S)



4T-33211

Single row tapered roller bearings

PRODUCT DIMENSIONS

Internal diameter d	55 mm
External diameter D	100 mm
Bearing/Inner ring width(B)	35 mm
Outer ring width (C)	27 mm
Total width (T)	35 mm
External diameter inner ring d1	78 mm
Charge load application point a	25,5 mm
Min fillet radius rs	2 mm
Min fillet radius r1s	1,5 mm
Coef e	0.4
Upper axial load coef (Y2)	1.5
Static axial load coef (Y0)	0.83
Mass	1,17 kg
ISO 355 reference	T3DE055
Brand	NTN

PRODUCT PERFORMANCE

Dynamic load, C	153 kN
Rating life coefficient, A2	1.0
Static load, C0	188 kN
Fatigue limit load, Cu	22,9 kN
Nlim (oil)	4900 tr/min
Nlim (grease)	3600 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.428 Hz
Characteristic rolling element frequency, BSF	6.598 Hz
Characteristic outer ring frequency, BPF0	8.137 Hz
Characteristic inner ring frequency, BPF1	10.863 Hz

ABUTMENT

Max shoulder diameter IR da max	62 mm
Min IR shoulder diameter (db min)	65 mm

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ABUTMENT

Min shoulder diameter OR Da min	85 mm
Max shoulder diameter OR Da max	91,5 mm
Min OR shoulder diameter Db min	96 mm
Min clearance Ca	6 mm
Min clearance Cb	8 mm
Max fillet radius ra max	2 mm
Maxi fillet radius r1a	1,5 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X.Fr + Y.Fa$$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$$Po = Xo.Fr + Yo.Fa$$

Xo	Yo
0.5	Yo

If $Po < Fr$, then use $Po = Fr$

The values for e, Y2 and Yo are shown in the above table