Technical data

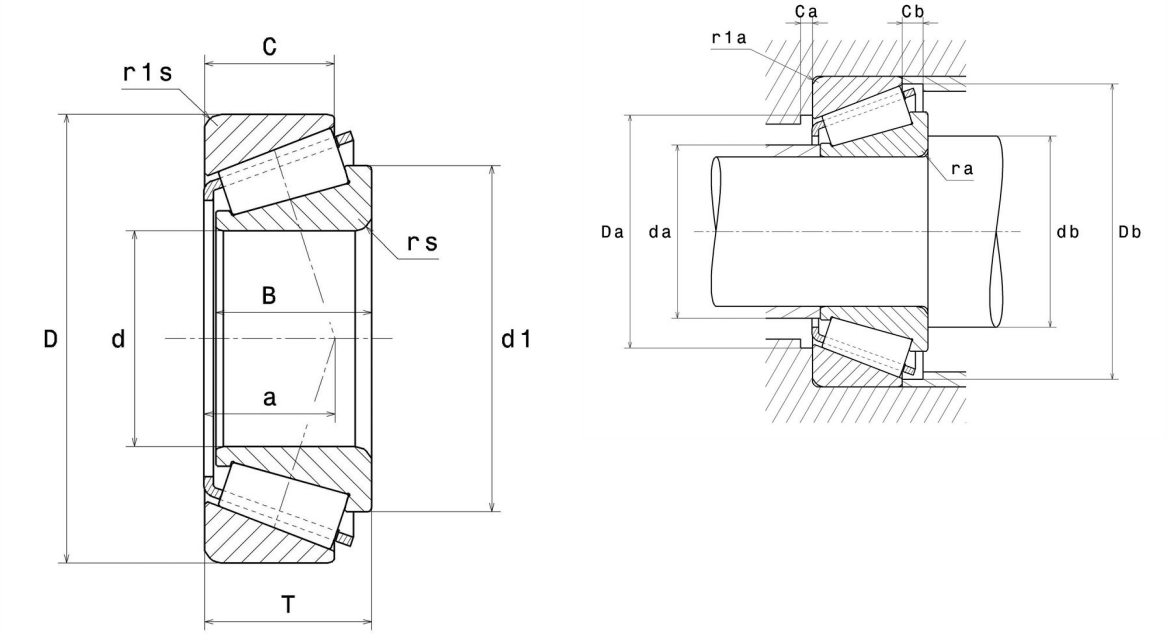
33112U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)



Product definition

d	60 mm
D	100 mm
B	30 mm
C	23 mm
T	30 mm
d1	80.5 mm
a	23.5 mm
rs min	1.5 mm
r1s min	1.5 mm
e	0.4
Y2	1.51
Y0	0.83
Mass	0.91 kg
ISO 355 reference	T3CE060
Brand	NTN

Product performance

Dynamic load, C	113 kN
Rating life coefficient, A2	1
Static load, C0	164 kN
Fatigue limit load, Cu	20 kN
Nlim (oil)	4,700 Tr/min
Nlim (grease)	3,600 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8 Hz
Characteristic outer ring frequency, BPF0	9.69 Hz
Characteristic inner ring frequency, BPFI	12.31 Hz

Abutment dimensions

da max	67 mm
db min	68.5 mm
Da min	88 mm
Da max	91.5 mm
Db min	96 mm
Ca min	5 mm
Cb min	7 mm
ra max	1.5 mm
r1a max	1.5 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa / Fr \leq e$		$Fa / Fr > e$	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
0.5	Y0

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

The values for e, Y2 and Y0 are shown in the above table