



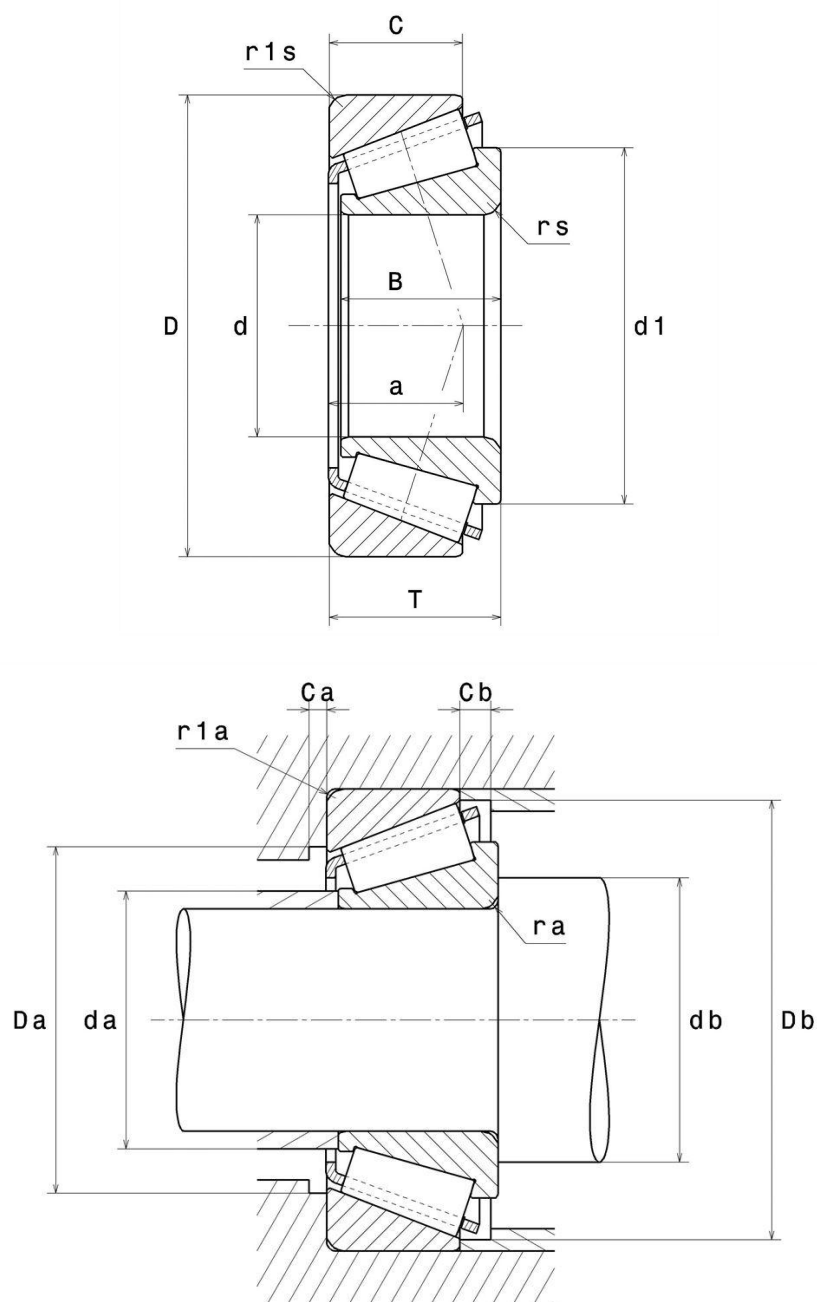
Technical data

33016U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

VISUAL (S)



33016U

Single row tapered roller bearings

PRODUCT DIMENSIONS

Internal diameter d	80 mm
External diameter D	125 mm
Bearing/Inner ring width(B)	36 mm
Outer ring width (C)	29,5 mm
Total width (T)	36 mm
External diameter inner ring d1	102,5 mm
Charge load application point a	25 mm
Min fillet radius rs	1,5 mm
Min fillet radius r1s	1,5 mm
Coef e	0.28
Upper axial load coef (Y2)	2.16
Static axial load coef (Y0)	1.19
Mass	1,61 kg
ISO 355 reference	T2CE080
Brand	NTN

PRODUCT PERFORMANCE

Dynamic load, C	192 kN
Rating life coefficient, A2	1.0
Static load, C0	284 kN
Fatigue limit load, Cu	34,5 kN
Nlim (oil)	3700 tr/min
Nlim (grease)	2800 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.448 Hz
Characteristic rolling element frequency, BSF	9.36 Hz
Characteristic outer ring frequency, BPF0	11.649 Hz
Characteristic inner ring frequency, BPGI	14.351 Hz

ABUTMENT

Max shoulder diameter IR da max	89 mm
Min IR shoulder diameter (db min)	88,5 mm

33016U

Single row tapered roller bearings

ABUTMENT

Min shoulder diameter OR Da min	112 mm
Max shoulder diameter OR Da max	116,5 mm
Min OR shoulder diameter Db min	119 mm
Min clearance Ca	6 mm
Min clearance Cb	6,5 mm
Max fillet radius ra max	1,5 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